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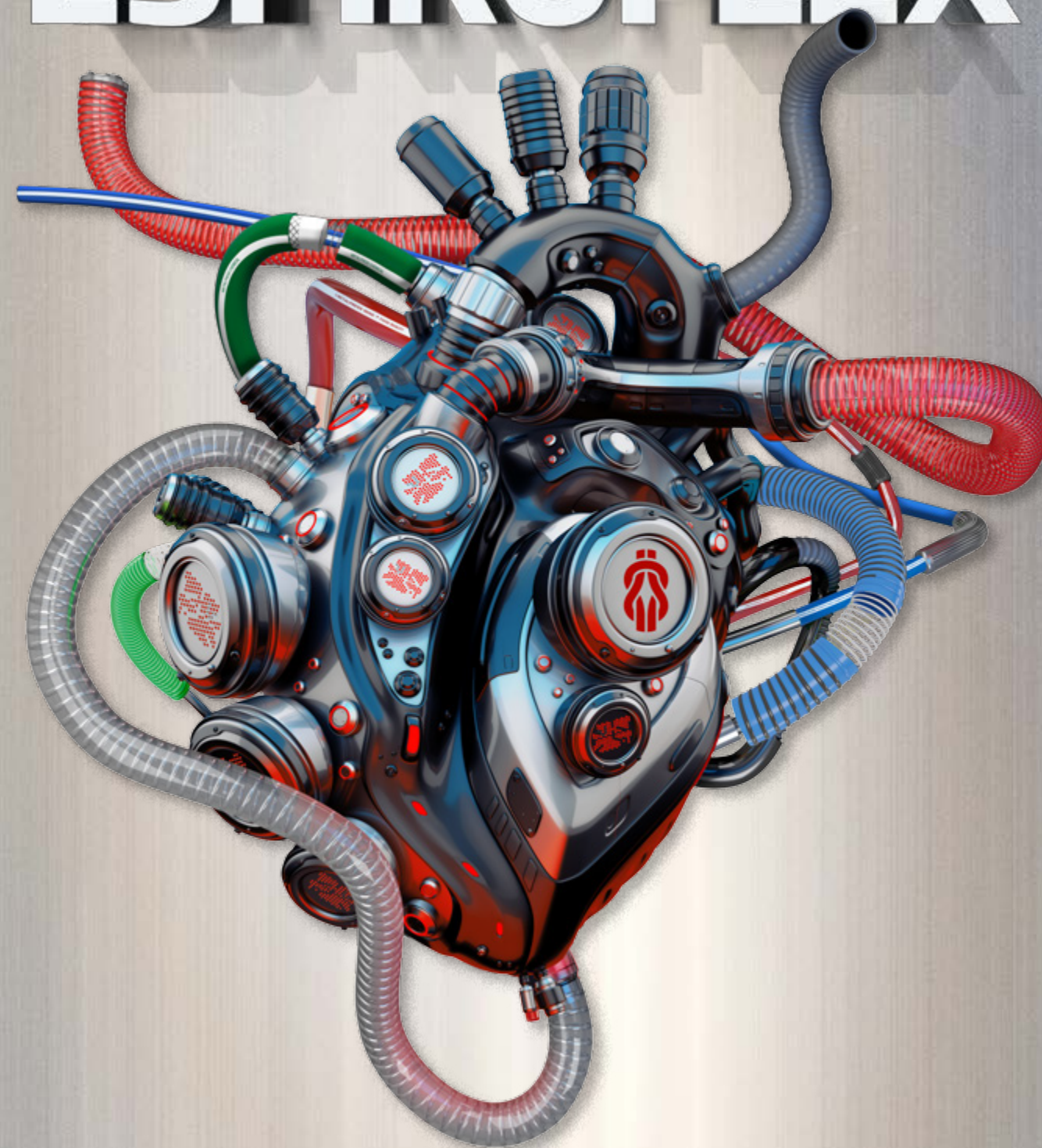
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 www.espiroflex.com/en



ESPIROFLEX | MARKET LEADER ON TECHNICAL HOSES | TECHNICAL CATALOGUE

MARKET LEADER ON TECHNICAL HOSES
ESPIROFLEX



TECHNICAL CATALOGUE





Market leader ^{IN} technical hoses



ESPIROFLEX
www.espiroflex.com/en

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25 years of Espiroflex: a history of constant growth

In the year **2020**, **Espiroflex** celebrated the **25th anniversary of its creation**. Since it began in 1995, the company's main goal has always been continuous growth. Today, a quarter of a century later, the company can look back proudly on the constant progress it has seen across every level. **Over the course of the last 25 years, Espiroflex has evolved from a small, Spanish company into an established world leader.**

For this reason, we would like to thank everyone who has been involved with **Espiroflex** and who has formed a part of its successful history. Suppliers, distributors and representatives have played a key role in developing this great project. Without them, we wouldn't have been able to achieve our objectives.

Of course, we must single out our employees and customers for special praise. **Espiroflex's** employees constitute the foundations of our philosophy and the best example of our company values: commitment, loyalty and selfless. The most significant example of this is the ongoing continuity of a large number of employees who started working here 25 years ago. Similarly, the entire work force's sacrifice, working tirelessly **24/7 during the recent Covid-19 crisis**, has once again showcased their commitment and the crucial value they provide.

In addition, our relationships with our customers - **based on trust, respect and loyalty** - have led to us maintaining a solid relationship with each and every one of them for more than two decades. Each year, we welcome numerous new customers who comply with these values with a view to also developing a long-standing relationship.

From all of us here at **Espiroflex**, thank you for being a part of this great family and for having helped us establish our position as a world leader in the technical hose industry.

As a result, we are fully committed to you all, which is evidenced through our primary aim for the coming years: to continue growing while remaining true to the same values.

Here's to many more years of **Espiroflex!**



**ANIVERSARIO
ANNIVERSARY
1995 • 2020**

Espiroflex timeline

From the outset, **Espiroflex** has focused on sustained, strong and constant growth. Always based on self-funding, the aim of this growth is continuous overall improvement of the service provided.



Leader on technical hoses

A world leader in the manufacture of technical and flexible hoses. **More than 5,000 product references** in the largest technical catalogue on the market. Specialists in the development of technical solutions for demanding sectors, such as the **industrial, agriculture, food, wine, swimming pool, sanitary and chemical industries**, among many others.



The only European manufacturer with a raw material production plant supplying its entire production.



Storage capacity of 12,000 pallets, 5,000,000 meters of technical hose in stock that guarantees an immediate response to the market.



Manufacturing 24 hours a day, 365 days a year.



Present in over 50 countries, distribution across the 5 continents.



Specialisation and the latest technology

More than 40 million metres manufactured annually using 8 different production technologies, distributed across more than 45 production lines in total.



► **R&D Department** in constant development.



◄ **Manufacture** of over 3 million metres per month.



► **Customised product manufacture**, according to customer requirements.



Espiroflex in numbers

STORAGE
CAPACITY OF
12.000 → 
EUROPALLETS

SELF-SUFFICIENT

2 
PLANTS
FOR
RAW MATERIALS

14 million
800
thousand 
ANNUAL MANUFACTURING
OF RAW MATERIALS

ANNUAL MANUFACTURING
40,000,000
MILLION METRES

12 TYPES
WITH DIFFERENT
TECHNOLOGIES 

OVER
45 
PRODUCTION LINES



Our own raw material production plant

This allows us to generate our own materials, exercise full control over their quality, and constantly research and develop new product compositions with continuous improvement and development (our hallmarks) in mind.

Over 70,000m² at the service of the market

Production plants strategically located in
Spain and the **Czech Republic**, and our own companies in **Germany**
and **France** to supply European markets with
an immediate response.



ESPIROFLEX FRANCE (SODITEC)
NARBONNE



ESPIROFLEX ESPAÑA
HEAD OFFICE



ESPIROFLEX EGYPT
(BADR CITY)



ESPIROFLEX CZECH REPUBLIC
(PACOV)

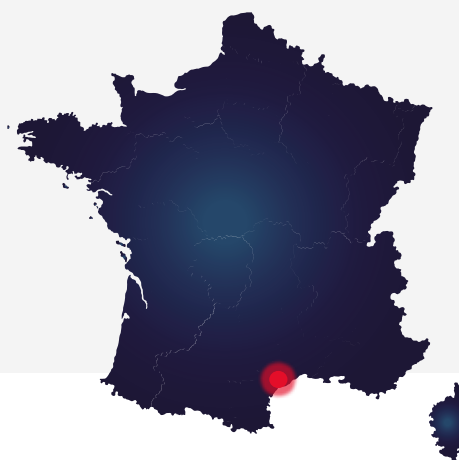
► **INTERNATIONAL EXPANSION:**

- | | | | | |
|-------------|------------------|--------------|---------------|---------------|
| • AUSTRIA | • COSTA RICA | • GREECE | • MOROCCO | • ROMANIA |
| • ANDORRA | • CROATIA | • HUNGARY | • MAURITANIA | • RUSSIA |
| • ALGERIA | • CZECH REPUBLIC | • ICELAND | • MAURITIUS | • SERBIA |
| • ARGENTINA | • DENMARK | • INDIA | • MEXICO | • SLOVAKIA |
| • AUSTRALIA | • EGYPT | • IRELAND | • MONACO | • SOLVENIA |
| • BELGIUM | • SPAIN | • ISRAEL | • NETHERLANDS | • SPAIN |
| • BRAZIL | • UNITED STATES | • ITALY | • NEW ZEALAND | • SWEDEN |
| • BULGARIA | • ESTONIA | • JORDAN | • NORWAY | • SWITZERLAND |
| • CHILE | • FRANCE | • KAZAKHSTAN | • PAKISTAN | • TUNISIA |
| • CHINA | • GEORGIA | • LATVIA | • POLAND | • TURKEY |
| • CYPRUS | • GERMANY | • LITHUANIA | • PORTUGAL | • UKRAINE |
| • COLOMBIA | • UNITED KINGDOM | • MALTA | • MOLDOVA | |

Leader in global distribution

Espiroflex has established itself as a world leader in all markets. Its constant growth is based on product innovation and logistic strategy that permit an efficient service committed to the markets.





Espiroflex France Soditecc (Narbonne)

The rapid commercial progression experienced by **Espiroflex** in the French market resulted in the creation of our subsidiary **Soditecc**.

LEADER IN FRANCE



LEADER IN
DISTRIBUTION

LINEAR METERS
TUBE SOLD
4,000,000 m



STORAGE
CAPACITY OF

7,000 m²
ON 5 LEVELS

DELIVERY TIMES



FACILITIES
OF OVER
8,000 m²

In m/m²
700,000 m
PVC AND RUBBER
PIPES



RUBBER SHEETS
60,000 m²

600 thousand
FITTINGS AND CLAMPS

4.mil
references



The excellent network connections and geographical proximity between our head office and this subsidiary allow for a **continual distribution service** that reduces lead times, offering optimal service.





Espiroflex Czech (Pacov)

With more than 15 years of experience, the **Espiroflex Czech** plant has become one of the group's leading subsidiaries.

TOTAL FACILITIES

 **20,000** m²

STORAGE
CAPACITY OF

2,000 → 
EUROPALLETS

ANNUAL MANUFACTURING

4 MILLION 
METRES MANUFACTURED
ANNUALLY

  
6,000,000 kg
OF RAW MATERIALS

2 productive ranges
raw material
RIGID AND FLEXIBLE

5 TYPES 
WITH DIFFERENT TECHNOLOGIES

Consolidating a resilient client base across much of Europe

Its excellent geographical location and already extensive experience in the industry make this company synonymous with a guarantee for customers.

19



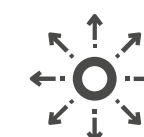
Espiroflex Egypt (Badr City)

With the aim of continuing to strengthen logistics networks with all our customers around the World, Espiroflex has created a distribution network in Egypt from which it supplies to all Arab countries



BENCHMARK IN ARAB COUNTRIES

BENCHMARK IN LOGISTICS



DELIVERY TIME



EXPERTS IN TECHNICAL HOSES



**PVC - PU
AND RUBBER**

FACILITIES OF OVER 1,000m²

Egypt is an strategic point from a logistics perspective

since it allows a better service to both North Africans counties as well as all those from the Arabian Peninsula. Constant growing and demand in the recent years by all our Arab partners urged Espiroflex to open a new international subsidiary. Espiroflex Egypt means the first subsidiary out of Europe reaching a total of 6 worldwide



Philosophy

Since it was founded, the company's **mission** has been to offer the market constant innovation of a **product with superior quality** in a bid to develop the industry and provide it with new solutions, thus enabling it to move forward as a whole in technical terms.

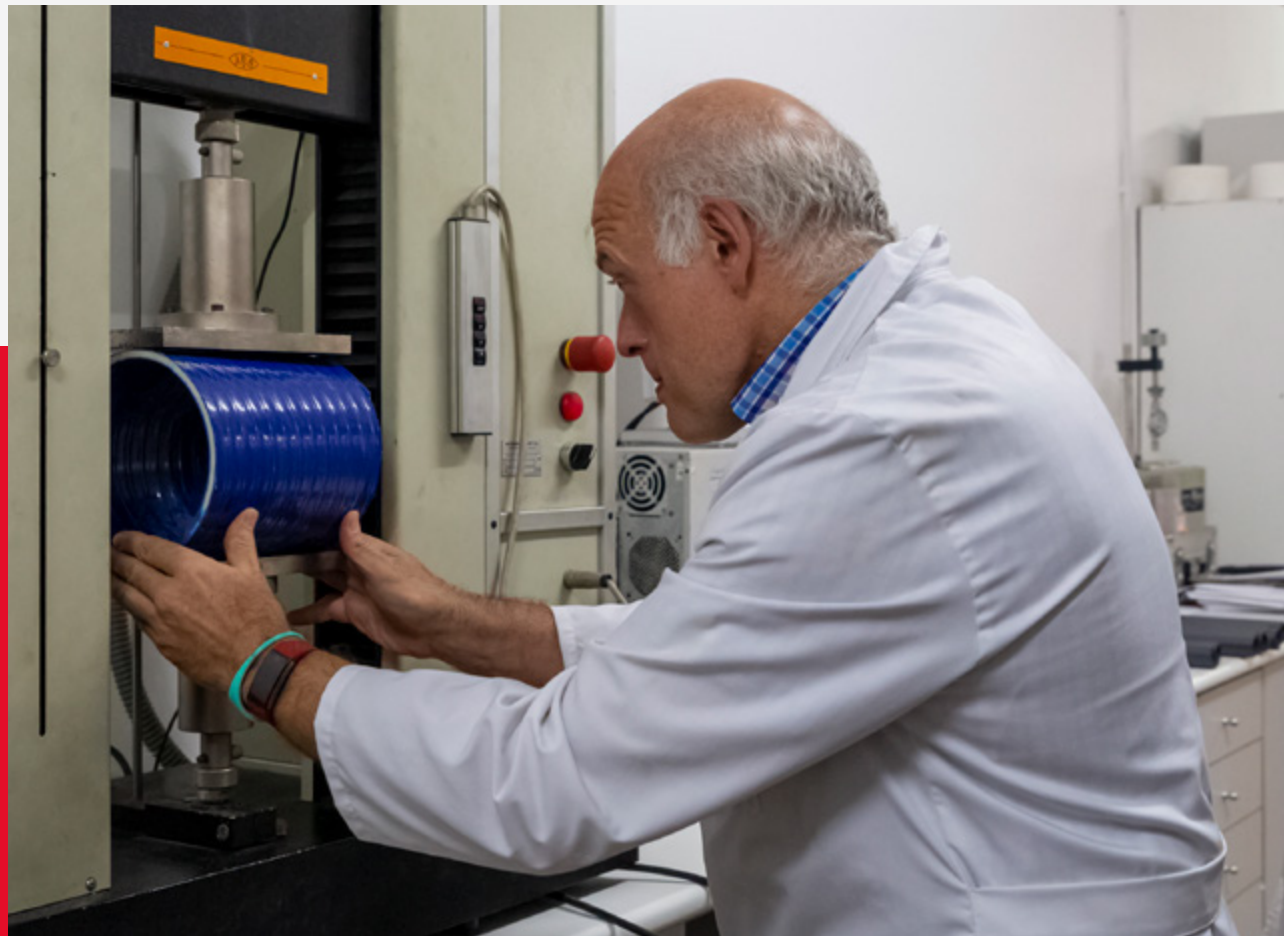
To achieve this, Espiroflex has a clear vision: **vertical integration of the entire process.**
From engineering developments and material formulation to final production of hoses, via manufacture of our own raw materials.

Espiroflex, which was originally a family-run company, has always based its success on unwavering, distinctive values that demand **commitment, loyalty and selflessness** at all times, both internally and from its business partners.

LEADING-EDGE

QUALITY

VERTICAL
INTEGRATION



Quality and innovation are our aims

As a result of the company's philosophy, based on **constant innovation of a product with superior quality**, Espiroflex's main investments are made in relation to its R&D and Quality Control departments.

Espiroflex **extensively monitors** each and **every one of the products it makes**, and it also performs a subsequent analysis and it stores samples for each batch.

This internal process is key to monitoring every product that leaves our facilities, as well as with regard to the **multiple certifications** awarded to our products globally, which amount to the highest form of **guarantees for our customers**.



Digitalisation

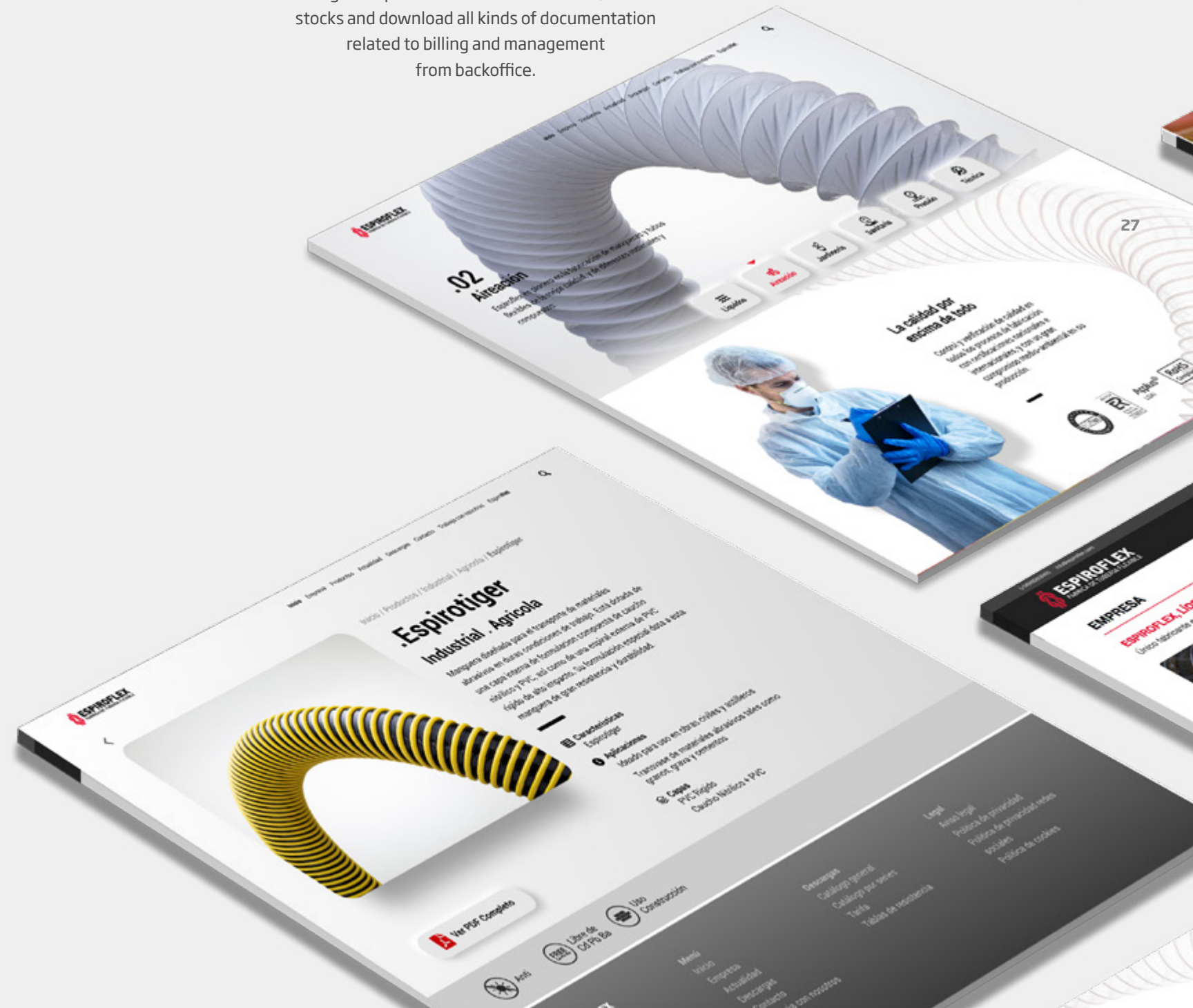
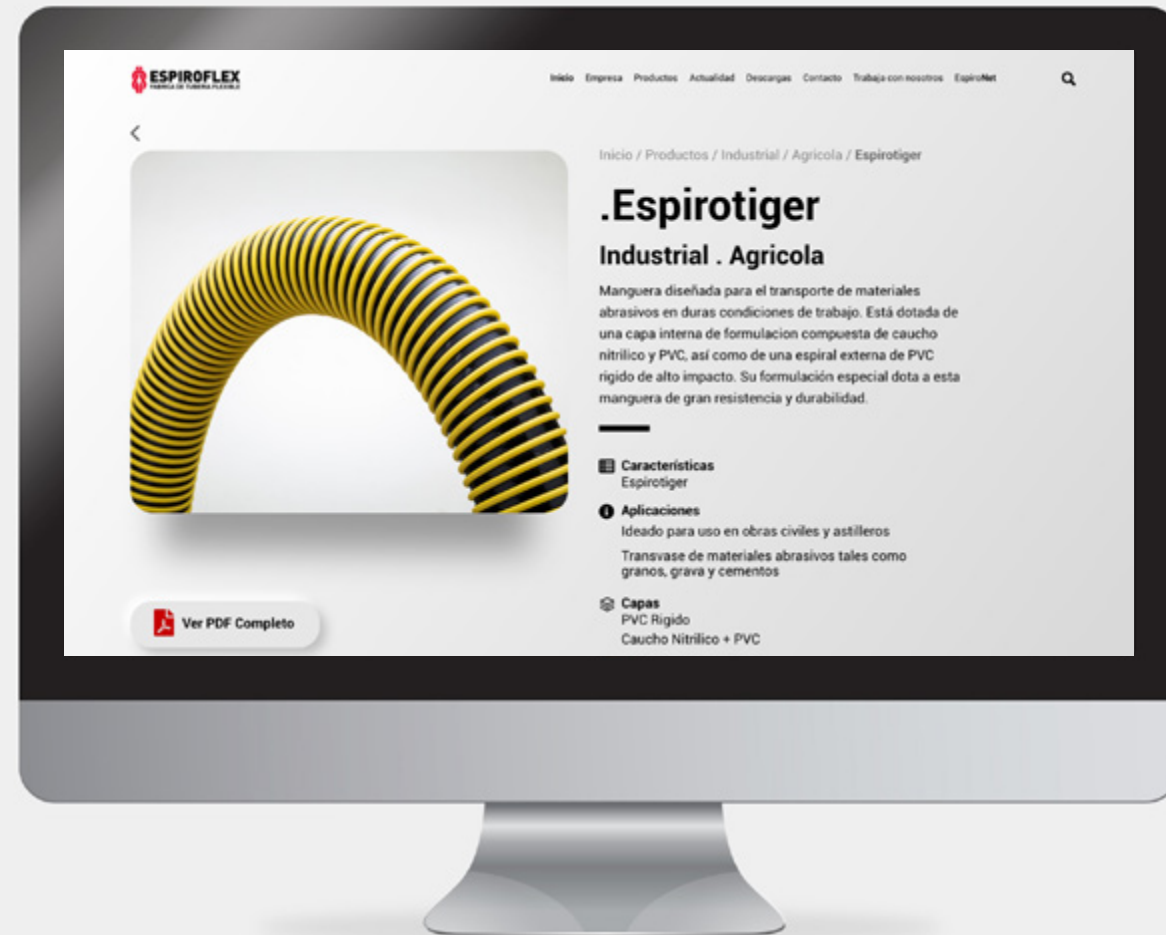
Espiroflex launches its new fully oriented website at the service of the user with a parameterized product search engine as a novelty. It will also have a customer portal: **Espironet.**

In parallel, the new Espiroflex website will have interesting new features such as the new product search engine. This search engine segmented by the main characteristics of the hose will make it easier for the customer to find exactly one product according to your specific needs.



Espironet

It is a powerful trading tool with the aim of strengthening the relationship between Spiroflex and its customers. through this platform orders can be made, consult stocks and download all kinds of documentation related to billing and management from backoffice.





Corporate Social Responsibility

Due to the main difficulties **Covid-19** has posed for the world, **Espiroflex** has decided to focus all of its corporate social responsibility on the fight against this global pandemic.

Espiroflex has adapted its production to focus on providing material to basic need industries, and the medical sector in particular. The **manufacture of medical hoses for ventilators** has been especially relevant as they are a key factor in this battle against the health crisis.

Espiroflex's recent collaboration with the automobile manufacturer, **SEAT**, has been particularly notable. This humanitarian project saw Espiroflex freely provide all the production tools necessary to manufacture **1500 ventilators each week**.



Industrial Agricultural

Liquids

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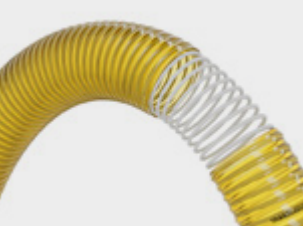
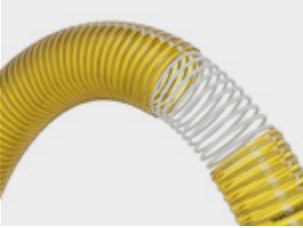
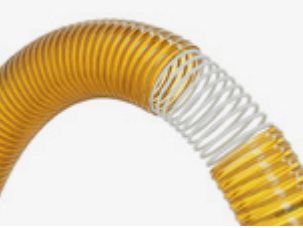
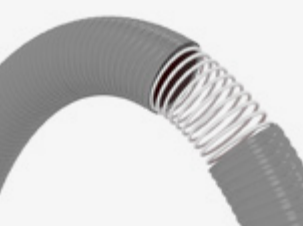
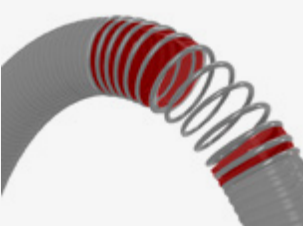
Air

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Pressure

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Liquids

36 Transliquid® 	38 Transliquid® S 	40 Transliquid® Superelastic 
42 Transliquid® Antiestático 	44 Transliquid® PU 	46 Transliquid® PU Antiestático 
48 Espirokit Suction 	50 Lisflex® 	52 Agromedium® 
54 Transfort® 	56 Transfort® Antiestático 	58 Transfort® PU 
60 Transfort® Superelastic 	62 Transfort® Superelastic Antiestático 	64 Transfort® Superflex 

Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features.

66

Transfort® Superflex Antiestático

**68**

Espirotiger®

**70**

Espirolayflat®

**72**

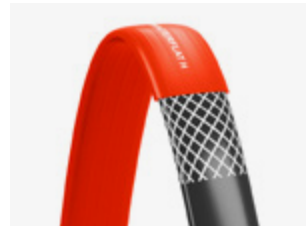
Waterflat® L

**74**

Waterflat® M

**76**

Waterflat® H

**78**

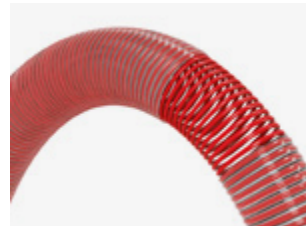
Espiroflat® Rubber

**80**

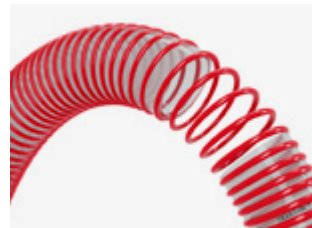
Sodigom®

**82**

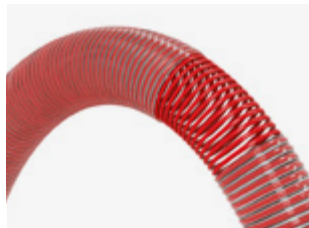
Transvin® Phthalates Free

**84**

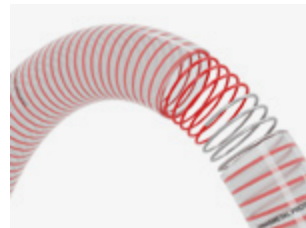
Transvin® Phthalates Free Sliding

**86**

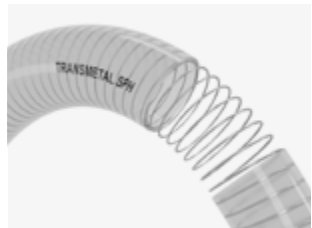
Transvin® Superelastic Phthalates Free

**88**

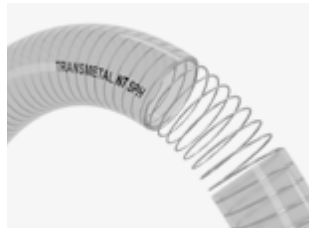
Transmetal® Protect

**90**

Transmetal® Phthalates Free

**92**

Transmetal® NT Phthalates Free

**94**

Transmetal® PU

**96**

Transmetal® PU Olive Oil

**98**

Espirofood® PU

**100**

Metalpress® Food

**102**

Metalpress® Oil

**104**

Metalpress® Milk

**106**

Metalpress® Wine

**108**

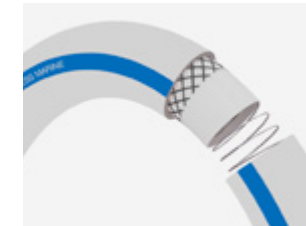
Metalpress® Chemical

**110**

Metalpress® Superelastic

**112**

Metalpress® Marine

**114**

Fishflex®

**116**

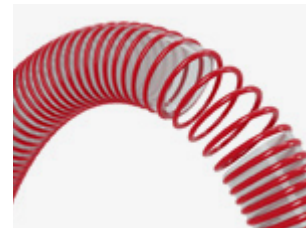
Espirofuel®

**118**

Espirofuel® Antiestático

**120**

Espiroliquid® PU

**122**

Espiroseeder®

**124**

Espiroseeder® PU



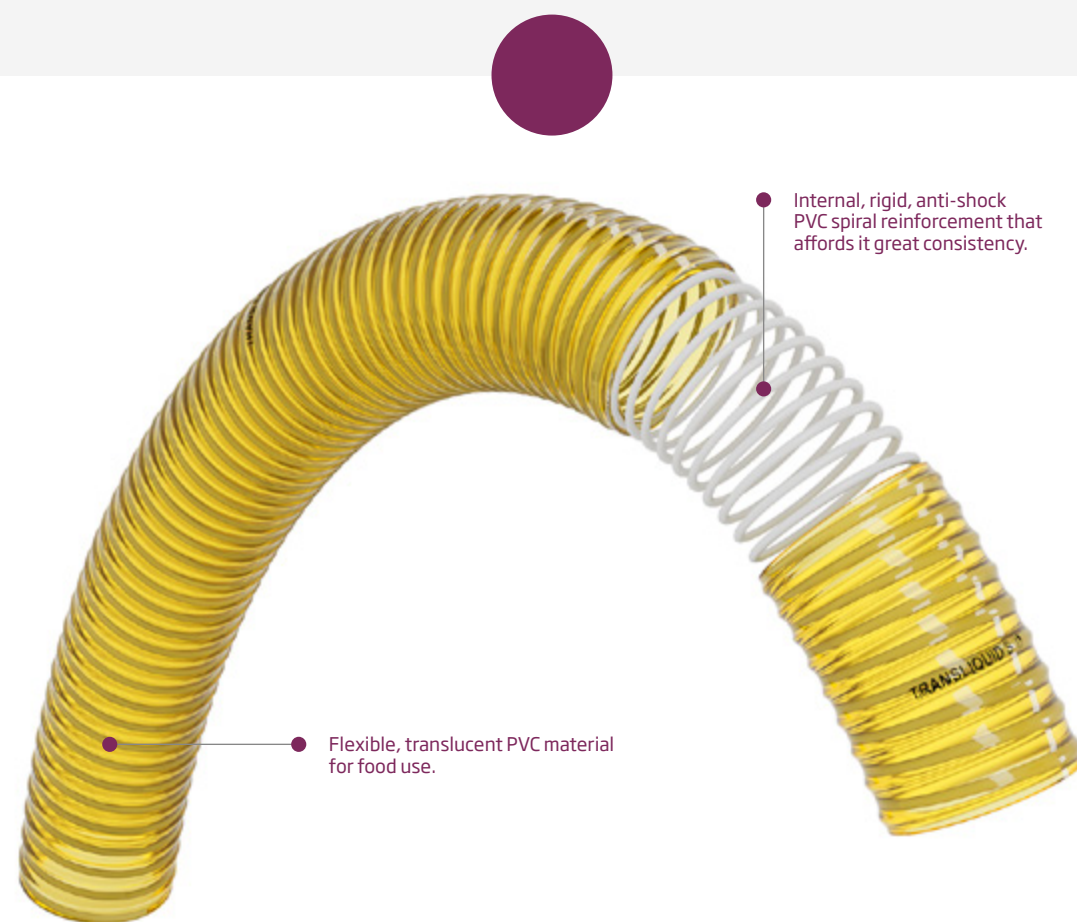
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features.

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Consult us for other diameters, colours and features.



Transliquid®

Suction and impulsion pumping hose
of food liquids.



Internal, rigid, anti-shock
PVC spiral reinforcement that
affords it great consistency.

Flexible, translucent PVC material
for food use.

Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011 (see declaration of conformity).
- The hose wall is smooth on the inside and corrugated on the outside.
- Good chemical resistance associated with PVC's resistance chart.
- Recommended temperature for use between -10°C and 60°C.



FOOD
USE



INDUSTRIAL
USE



AGRICULTURAL
USE



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba

Applications

- ▶ Transport of fluids in industrial facilities.
- ▶ Pumping and suction in agricultural machinery and irrigation.
- ▶ Transfer of liquid food products that require food simulants A, B and C in OM2 conditions in accordance with Regulation EU 10/2011.
- ▶ Installation in bilge pumps and similar uses for the suction of liquids in general.

INT Ø mm	INT Ø in	WALL THICKNESS mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O	COLOURS AVAILABLE
15	5/8"	3	180	7	21	60	9	● ●
20	3/4"	3.3	285	7	21	80	9	
25	1"	3.5	360	7	21	100	9	
32	1" 1/4	3.5	435	5	15	128	9	
35	1" 3/8	3.5	495	5	15	140	9	
38	1" 1/2	3.8	520	5	15	152	9	
40	1" 5/8	4	540	5	15	160	9	
45	1" 3/4	4	630	5	15	180	9	
51	2"	4	765	5	15	200	9	
55	2" 1/8	4	810	5	15	220	9	
60	2" 1/32	4.5	900	4	12	240	9	
63	2" 1/2	4.5	990	4	12	260	9	
70	2" 3/4	4.5	1125	4	12	280	9	
76	3"	4.5	1260	4	12	300	9	
80	3" 1/8	5	1440	4	12	320	9	
90	3" 1/2	5	1665	3	9	360	9	
102	4"	5.5	1980	3	9	400	9	
110	4" 5/16	6	2250	3	9	440	9	
120	4" 3/4	6.5	2500	3	9	480	9	
127	5"	6.5	2700	3	9	500	9	
140	5" 1/2	7	3600	3	9	560	9	
152	6"	7	3870	3	9	600	9	
203	8"	8.5	6270	2.5	7.5	800	9	

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters.

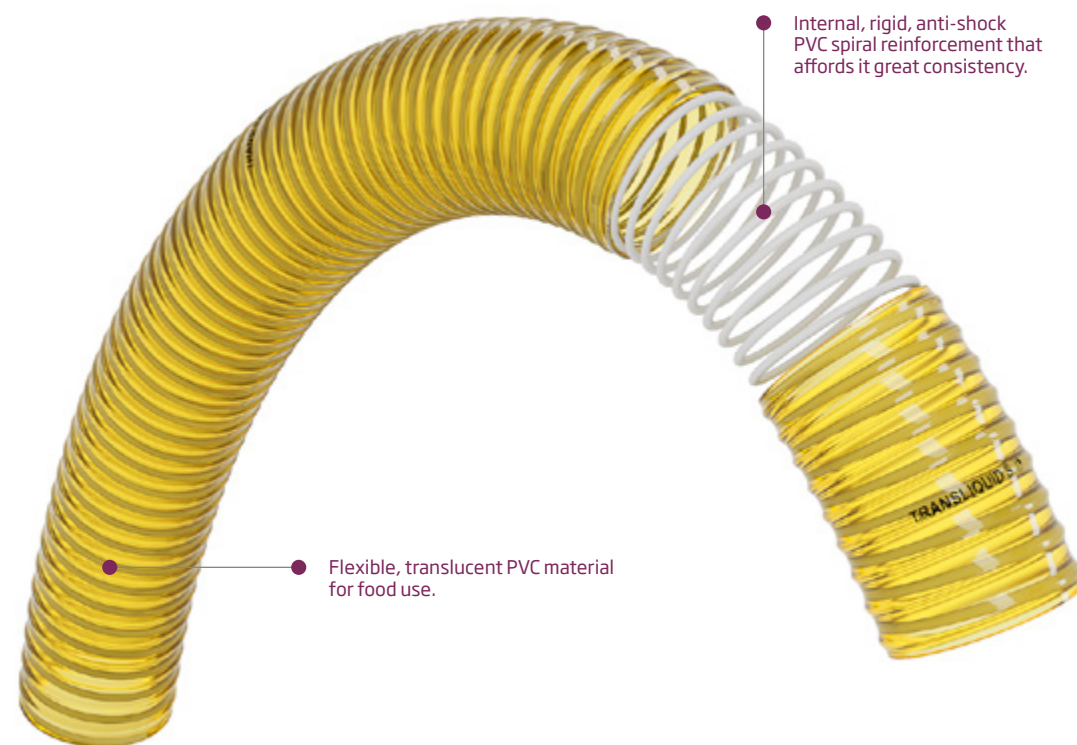


Transliquid® S

Light hose for pumping by suction and impulsion of food liquids.

Applications

- ▶ Transfer of liquid food products that require food simulants A, B and C in OM2 conditions in accordance with Regulation EU 10/2011.
- ▶ Pumping and suction in agricultural and industrial irrigation.



Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011 (see declaration of conformity).
- The hose wall is smooth on the inside and corrugated on the outside.
- Good chemical resistance associated with PVC's resistance chart.
- Recommended temperature for use between -10°C and 60°C.



FOOD
USE



INDUSTRIAL
USE



AGRICULTURAL
USE



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba

INT Ø mm	INT Ø in	WALL THICKNESS mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O	COLOURS AVAILABLE
15	5/8"	3	140	5	15	45	9	 
20	3/4"	3	220	5	15	60	9	
25	1"	3	280	5	15	75	9	
30	1" 1/8	3	315	5	15	90	9	
32	1" 1/4	3	335	5	15	96	9	
35	1" 3/8	3.2	410	5	15	105	9	
38	1" 1/2	3.2	440	5	15	120	9	
40	1" 5/8	3.2	470	4	12	120	9	
45	1" 3/4	3.5	570	4	12	135	9	
51	2"	3.5	680	4	12	150	9	
55	2" 1/8	3.8	730	4	12	165	9	
60	2" 1/32	3.8	810	3	9	180	9	
63	2" 1/2	3.8	875	3	9	195	9	
70	2" 3/4	3.8	940	3	9	210	9	

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters.

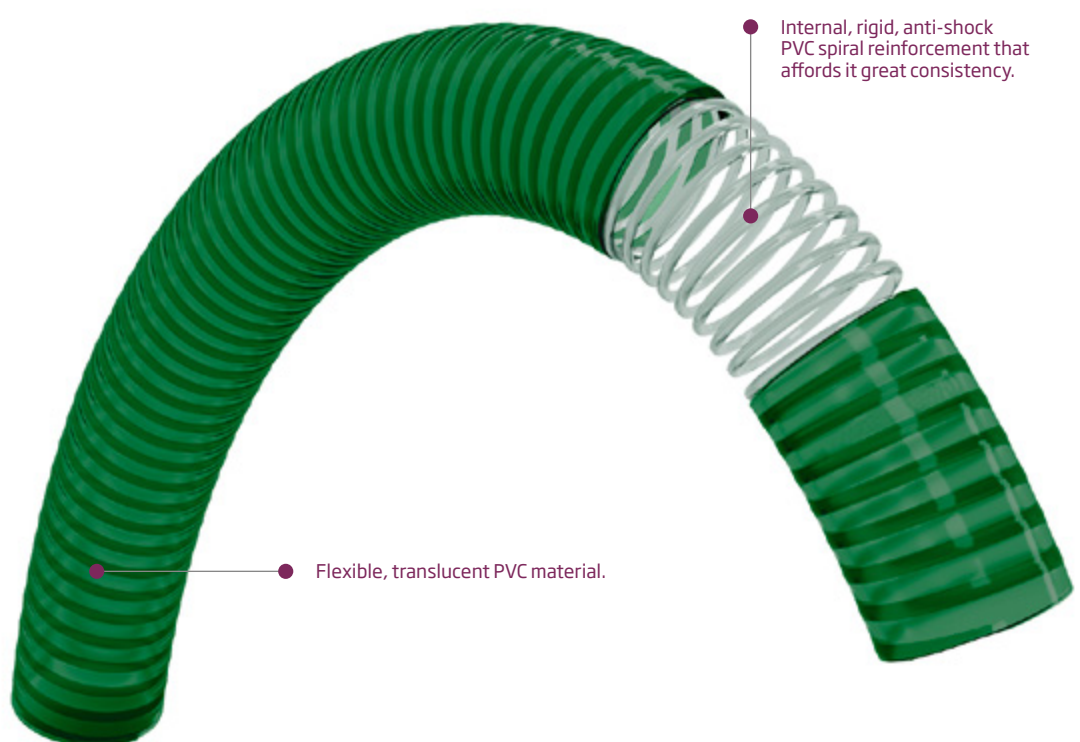
Transliquid® Superelastic

Hose for pumping by suction and impulsion of liquids, especially indicated for low temperatures.



Applications

- ▶ Hose for pumping and suction of liquids. Specially designed for low temperatures.
- ▶ Slurry pumping and suction hose. Special hose design for maximum flexibility.



Features

- For agricultural and industrial use.
- The hose wall is smooth, both inside and outside.
- Good chemical resistance associated with PVC's resistance chart.
- Recommended temperature for use between -25°C and 60°C.



INDUSTRIAL
USE



AGRICULTURAL
USE



HIGH QUALITY
CONTROL



FREE
Cd-Pb-Ba

FREE FROM
Cd / Pb / Ba

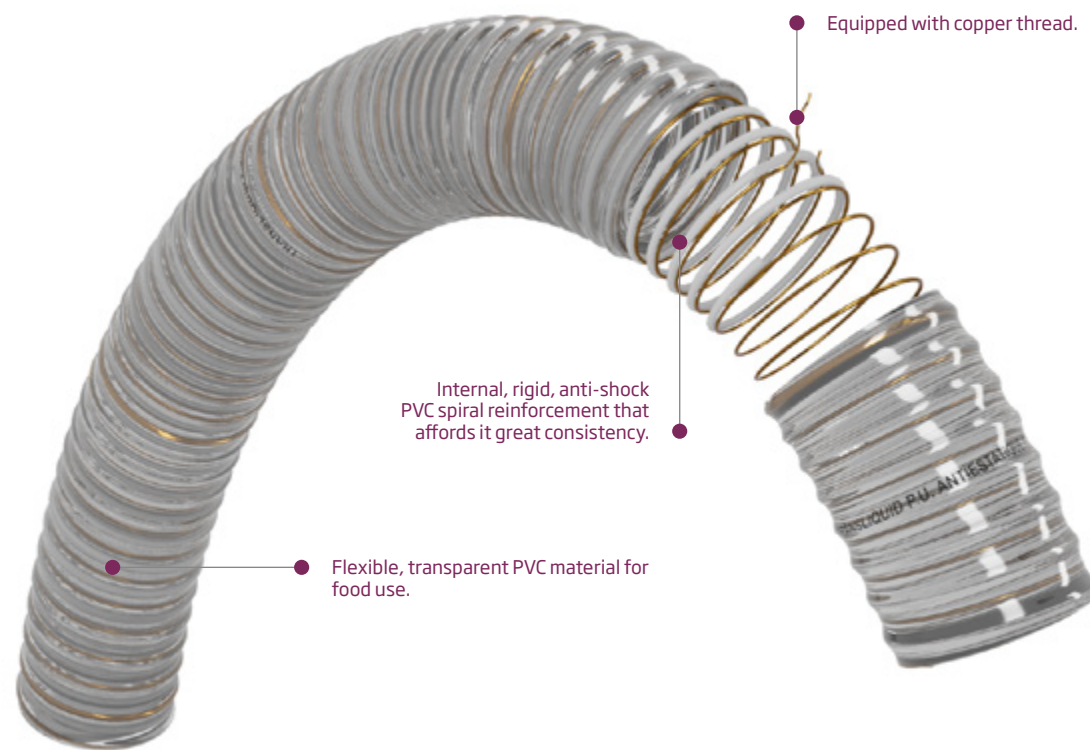
INT Ø mm	INT Ø in	WALL THICKNESS mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O
19	¾"	3.0	210	6	18	40	9
25	1"	3.0	330	6	18	45	9
32	1¼"	3.0	410	5	15	50	9
38	1½"	3.1	505	4	12	60	9
40	1⅝"	3.2	535	4	12	60	9
45	1¾"	3.5	680	4	12	80	9
51	2"	3.5	750	4	12	100	9
60	2⅜"	3.5	875	4	12	120	9
76	3"	4.0	1200	4	12	160	9

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters.



Transliquid® Antiestático

PVC hose for pumping and suction of liquid food products. Antistatic product suitable for facilities governed by ATEX regulations.



Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011 (see declaration of conformity).
- Equipped with a copper wire that makes it antistatic.
- The hose wall is smooth on the inside and corrugated on the outside.
- Good chemical resistance associated with PVC's resistance chart.
- Recommended temperature for use between -10°C and 60°C.



FOOD
USE



INDUSTRIAL
USE



AGRICULTURAL
USE



ANTISTATIC



FREE FROM
Cd / Pb / Ba



HIGH QUALITY
CONTROL

Applications

- Transfer of liquid food products that require food simulants A, B and C in OM2 conditions in accordance with Regulation EU 10/2011.
- Pumping and suction in agricultural and industrial irrigation when the facility needs to have antistatic properties.

INT Ø mm	INT Ø in	WALL THICKNESS mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O
20	3/4"	3.3	285	7	21	80	9
25	1"	3.5	360	7	21	100	9
30	1" 1/8	3.5	405	5	15	120	9
32	1" 1/4	3.5	435	5	15	128	9
35	1" 3/8	3.5	495	5	15	140	9
38	1" 1/2	3.8	520	5	15	152	9
40	1" 5/8	4	540	5	15	160	9
45	1" 3/4	4	630	5	15	180	9
51	2"	4	765	5	15	200	9
55	2" 1/8	4	810	5	15	220	9
60	2" 1/32	4.5	900	4	12	240	9
63	2" 1/2	4.5	990	4	12	260	9
70	2" 3/4	4.5	1125	4	12	280	9
76	3"	4.5	1260	4	12	300	9
80	3" 1/8	5	1440	4	12	320	9
90	3" 1/2	5	1665	3	9	360	9
102	4"	5.5	1980	3	9	400	9
110	4" 5/16	6	2250	3	9	440	9
120	4" 3/4	6.5	2500	3	9	480	9
127	5"	6.5	2700	3	9	500	9
140	5" 1/2	7	3600	3	9	560	9
152	6"	7	3870	3	9	600	9
203	8"	8.5	6270	2.5	7.5	800	9

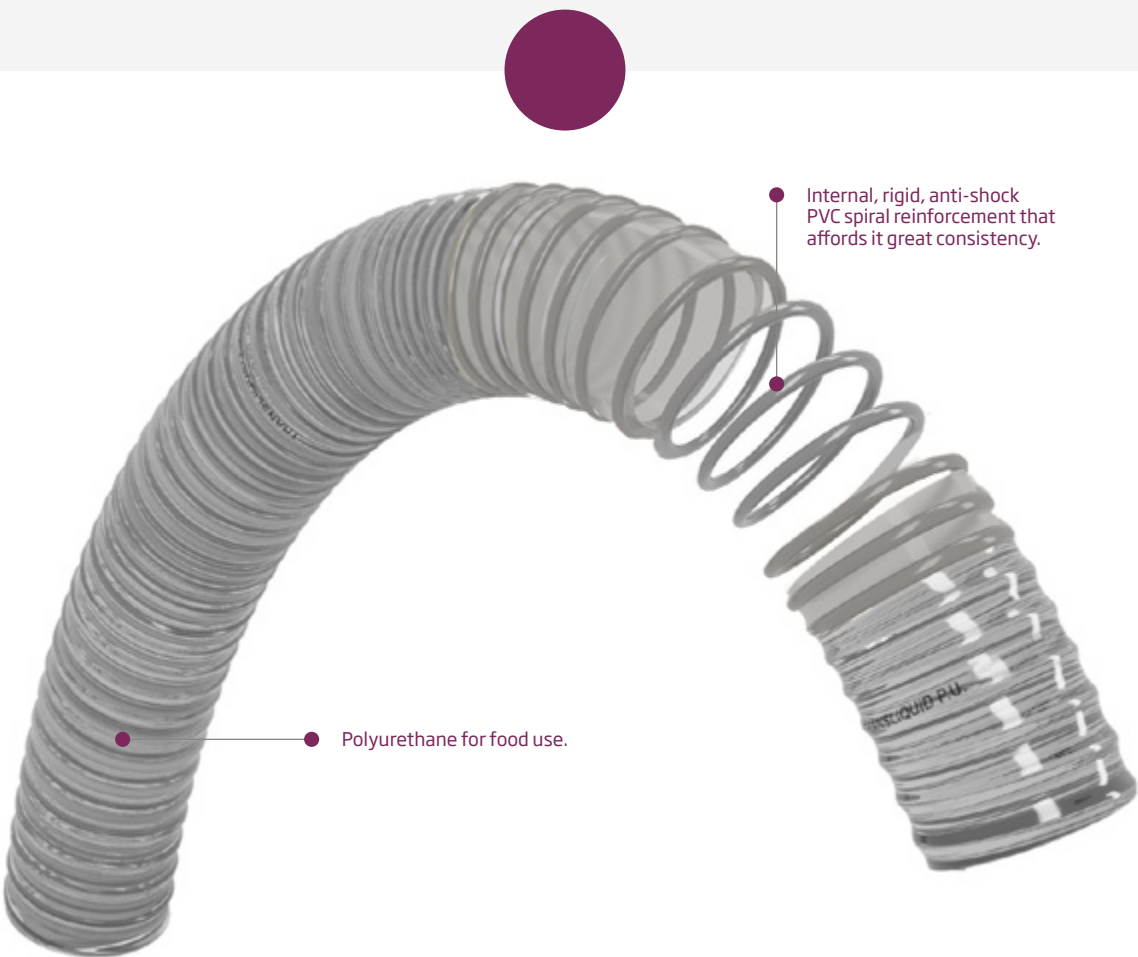
Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters.

Transliquid® PU

Polyurethane hose with a PVC spiral for pumping and suction of highly abrasive liquids (rebar, mud, sand, etc.).

Applications

► Pumping and suction of highly abrasive liquids (rebar, mud, sand, seeds, etc.).



Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011 (see declaration of conformity).
- The hose wall is smooth on the inside and corrugated on the outside.
- Good chemical resistance associated with PU's resistance chart and very good resistance to hydrolysis.
- Recommended temperature for use between -20°C and 80°C.



FOOD
USE



INDUSTRIAL
USE



AGRICULTURAL
USE



MADE FROM POLY-
URETHANE



ANTI-ABRASION



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba

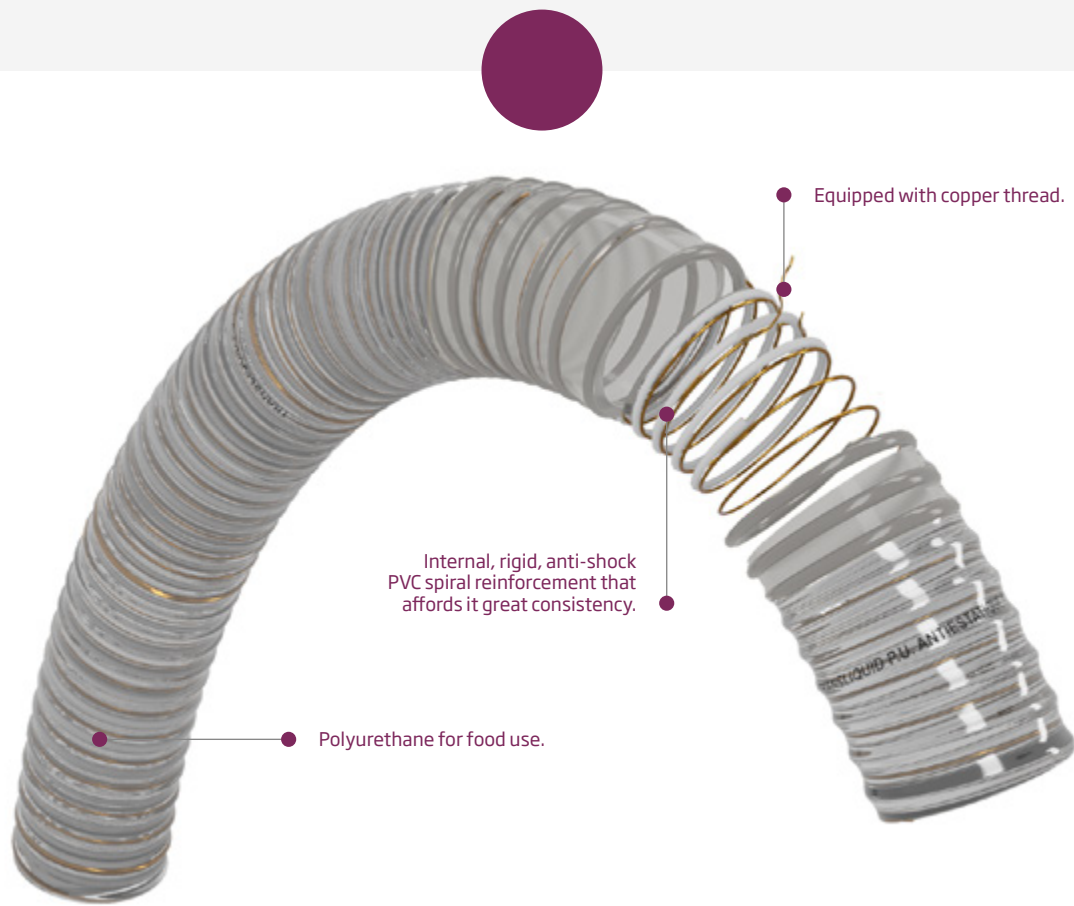


INT Ø mm	INT Ø in	WALL THICKNESS mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS bar	VACUUM m H ₂ O
20	3/4"	2.6	205	5	15	120	9
25	1"	2.6	235	5	15	150	9
30	1" 1/8	3	360	5	15	180	9
32	1" 1/4	3	384	5	15	190	9
38	1" 1/2	3.2	418	5	15	240	9
40	1" 5/8	3.2	470	5	15	240	9
45	1" 3/4	3.5	550	5	15	270	9
51	2"	3.7	600	5	15	300	9
55	2" 1/8	3.8	660	5	15	330	9
60	2" 1/32	4	800	5	15	360	9
63	2" 1/2	4.2	815	4	12	390	9
70	2" 3/4	4.4	1000	4	12	420	9
76	3"	4.6	1100	4	12	450	9
80	3" 1/8	4.7	1200	4	12	480	9
90	3" 1/2	5	1400	4	12	540	9
102	4"	5	1600	3	9	600	9
110	4" 5/16	5	1850	3	9	660	9
127	5"	6	2090	3	9	750	9
152	6"	6.7	3400	3	9	900	9

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters.

Transliquid® PU Antiestático

PVC hose with polyurethane inner layer specially designed for the impulsion and aspiration of pellets and liquid food products.
Antistatic product suitable for installations regulated by ATEX regulations.



Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011 (see declaration of conformity).
- Equipped with a copper wire that makes it antistatic.
- Highly resistant and great flexibility, even at low temperatures.
- The hose wall is smooth on the inside and corrugated on the outside.
- Good chemical resistance associated with PU's resistance chart and very good resistance to hydrolysis.
- Recommended temperature for use between -20°C and 80°C.



Applications

- Transfer of liquid food products that require food simulants A, B and C in OM2 conditions in accordance with Regulation EU 10/2011.
- Pumping and suction in agricultural and industrial irrigation when the facility needs to have antistatic properties.
- Transfer of pellet and other abrasive materials on boiler installations.

INT Ø mm	INT Ø in	WALL THICKNESS mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O
20	3/4"	2.8	260	5	15	50	7
25	1"	2.8	305	5	15	65	7
30	1" 1/8	3.2	470	5	15	75	7
32	1" 1/4	3.2	384	5	15	80	7
38	1" 3/8	3.4	500	5	15	95	7
40	1" 1/2	3.4	610	5	15	100	7
45	1" 5/8	3.7	715	5	15	120	7
51	1" 3/4	4.0	780	5	15	130	7
55	2"	4.0	990	5	15	140	7
60	2" 1/8	4.2	1040	5	15	150	7
63	2" 1/32	4.4	1060	4	12	160	7
65	2" 1/2	4.4	1080	4	12	165	7
70	2" 3/4	4.8	1300	4	12	175	7
75	3"	4.8	1430	4	12	190	7
80	3" 1/8	4.9	1560	4	12	200	7
90	3" 1/2	5.2	1820	4	12	225	7
102	4"	5.2	2080	3	9	260	6
110	4" 5/16	5.2	2405	3	9	275	6
125	4" 3/4	6.3	2720	3	9	320	6
150	5"	7.0	4420	3	9	375	6

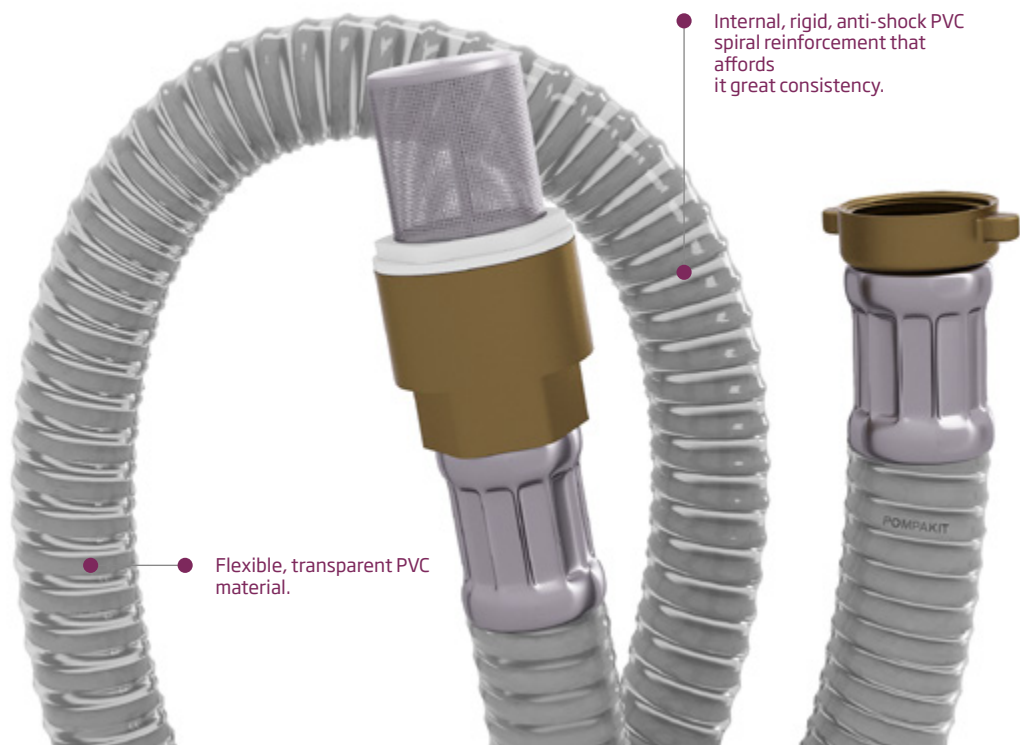
Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters.

Espirokit Suction

Seven-metre section of special suction hose with 1" connector accessories, female fitting and check suction valve.

Applications

- ▶ Pumping and suction in agricultural irrigation and gardening.
- ▶ Installation in small bilge pumps for the suction of liquids in ponds, gardens and similar domestic uses.



Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011 (see declaration of conformity).
- The hose wall is smooth on the inside and corrugated on the outside.
- Good chemical resistance associated with PVC's resistance chart.
- Supplied in 7-metre rolls with two 1" connectors, assembled and fixed, one of which is equipped with a check suction valve, in metal or plastic.
- Recommended temperature for use between -10°C and 60°C.



DOMESTIC
USE



FOOD
USE



INDUSTRIAL
USE



AGRICULTURAL
USE



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba



INT Ø mm	INT Ø in	WALL THICKNESS mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O
22	1"	3	280	5	15	75	9
25	1"	3	280	5	15	75	9
32	1" 1/4	3	335	5	15	75	9

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters.

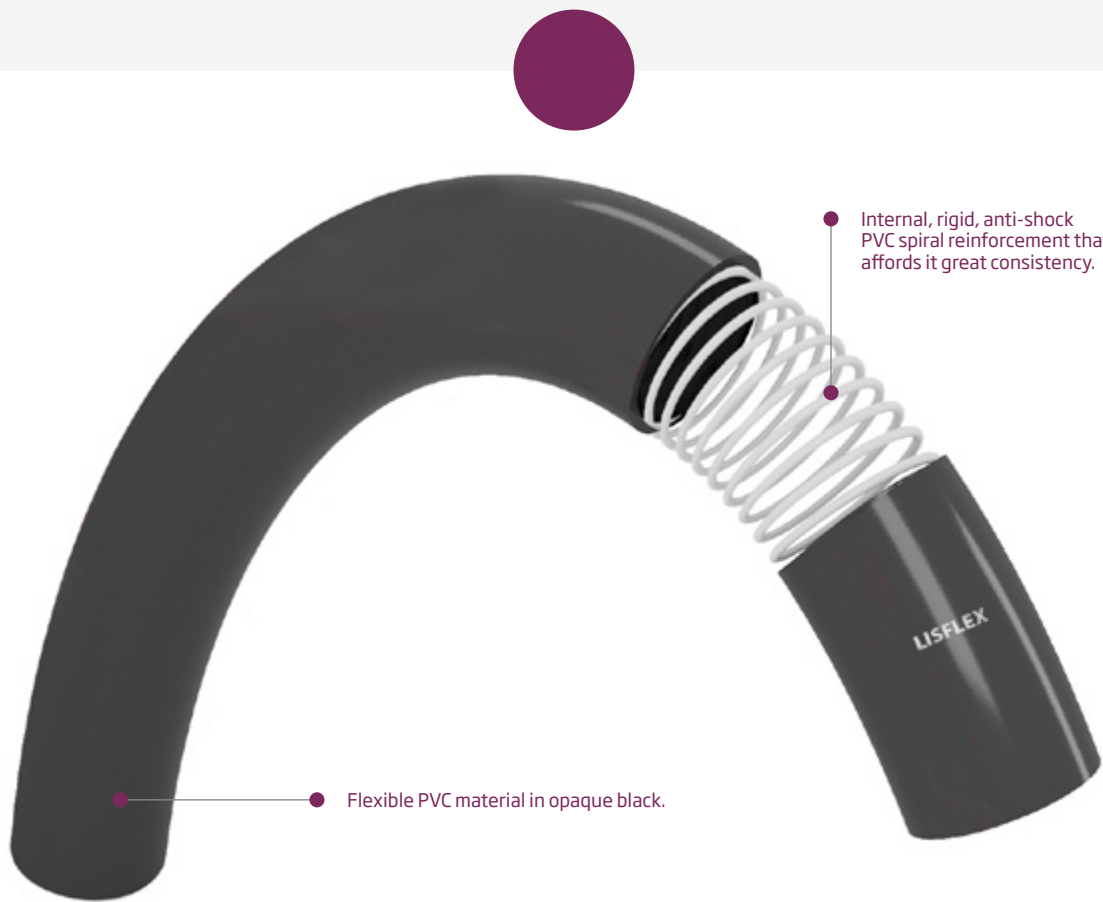


Lisflex®

Hose for discharges, pumping of liquids and conduction in filtration circuits for ponds, small lakes, baths and similar gardening uses.
Pumping and suction in agricultural machinery.

Applications

► Discharge circuits for swimming pools, ponds, small lakes and garden fountains.



Features

- For agricultural and industrial use.
- The hose wall is smooth, both inside and outside.
- Good chemical resistance associated with PVC's resistance chart.
- Recommended temperature for use between -10°C and 60°C.



DOMESTIC
USE



INDUSTRIAL
USE



AGRICULTURAL
USE



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba



INT Ø mm	INT Ø in	WALL THICKNESS mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O
19	¾"	1.7	181	5	15	80	9
25	1"	2.3	250	4	12	100	9
32	1¼"	2.7	380	4	12	130	9
38	1½"	2.8	470	4	12	160	9
40	1⅝"	3	510	4	12	160	9
51	2"	3.7	760	3	9	200	9
63	1½"	3.8	1050	3	9	250	9
70	2¾"	4.8	1500	3	9	280	9
76	3"	4.8	1700	3	9	300	9
102	4"	4.8	2100	3	9	400	9

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters.

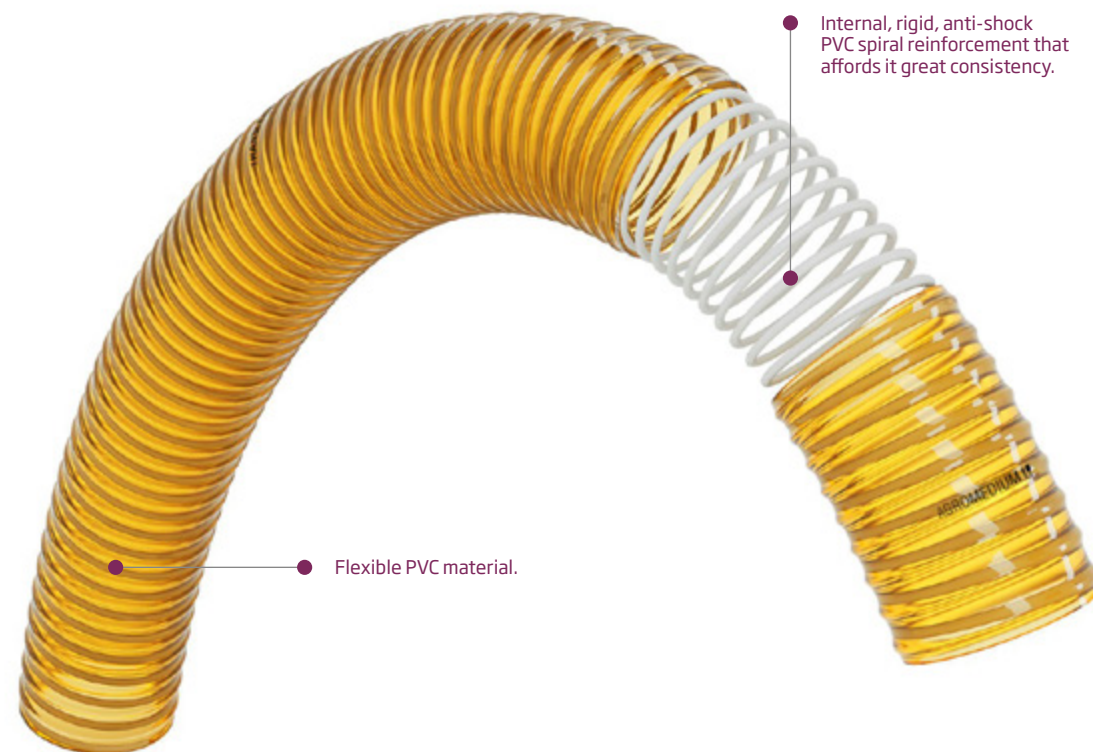


Agromedium®

Suction and pumping hose for agricultural and industrial irrigation with a moderate aggressiveness index.

Applications

- ▶ Pumping and suction in agricultural and industrial irrigation and slurry.
- ▶ Transport of granulated materials and drainage of cesspits.



Features

- For agricultural and industrial use.
- Available in version for food use, orange (see declaration of conformity).
- The hose wall is smooth on the inside and corrugated on the outside.
- Good chemical resistance associated with PVC's resistance chart.
- Recommended temperature for use between -10°C and 60°C.



FOOD
USE



INDUSTRIAL
USE



AGRICULTURAL
USE



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba

INT Ø mm	INT Ø in	WALL THICKNESS mm	WEIGHT g/m	OPERAT- ING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O	COLOURS AVAILABLE
51	2"	5	960	5	15	250	9	  
55	2" 1/8	5	1120	5	15	275	9	
60	2" 1/32	5.5	1300	5	15	300	9	
63	2" 1/2	5.5	1360	5	15	315	9	
70	2" 3/4	6	1520	5	15	350	9	
76	3"	6	1600	5	15	375	9	
80	3" 1/8	6	1700	4	12	400	9	
90	3" 1/2	6	2050	4	12	450	9	
102	4"	7	2650	3	9	500	9	
110	4" 5/16	7	2850	3	9	550	9	
120	4" 3/4	7.5	3100	3	9	600	9	
127	5"	7.5	3200	3	9	625	9	
152	6"	8	5000	3	9	750	9	
203	8"	11	8100	2.5	7.5	1000	9	
254	10"	12.5	10400	2.5	7.5	1250	9	
305	12"	13.5	12000	2.5	7.5	1500	9	

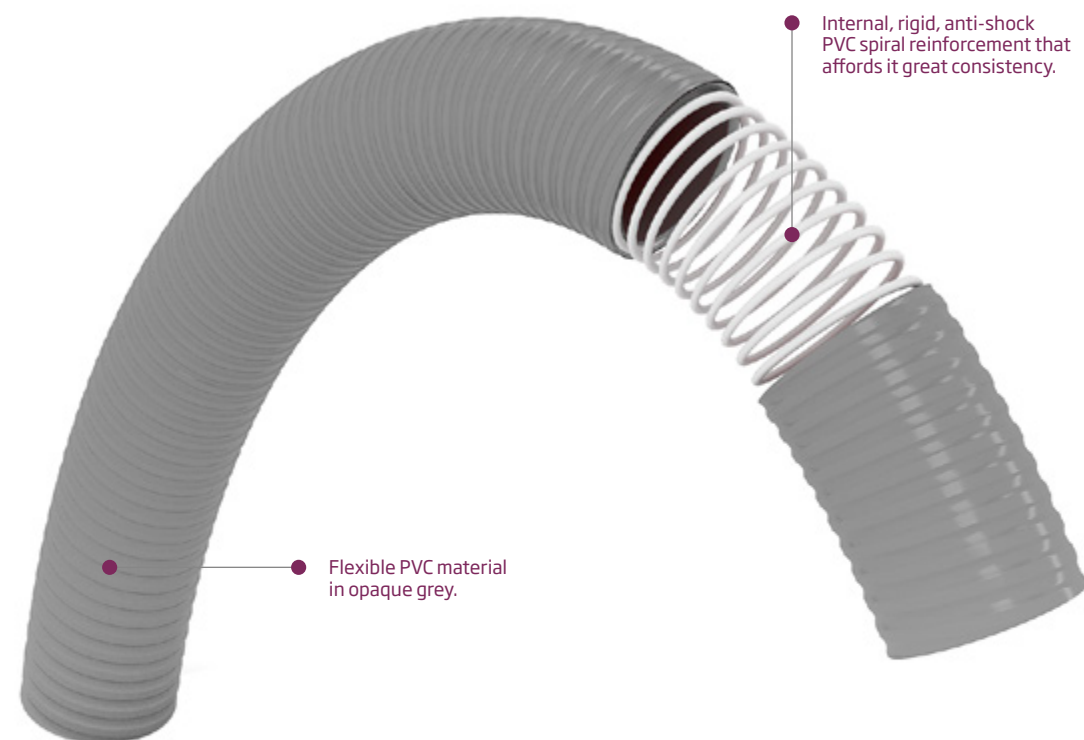
Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters.

Transfort®

Pumping and suction hose for slurries, industrial irrigation, cesspits, bilges and products with a high aggressiveness index.

Applications

- ▶ Pumping and suction in agricultural and industrial irrigation and slurry.
- ▶ Transport of granulated materials and drainage of cesspits.



Features

- For agricultural and industrial use.
- The hose wall is smooth on the inside and corrugated on the outside.
- Good chemical resistance associated with PVC's resistance chart.
- Recommended temperature for use between -10°C and 60°C.



INDUSTRIAL
USE



AGRICULTURAL
USE



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba

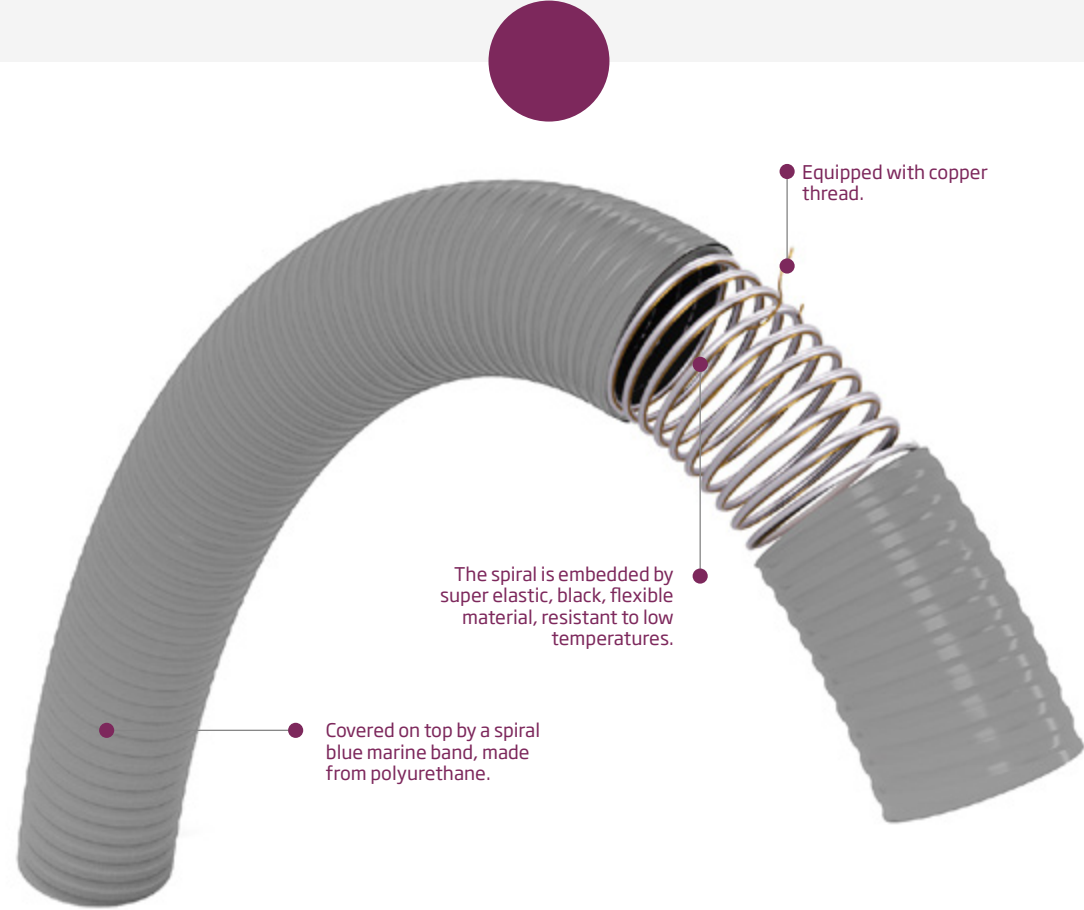
INT Ø mm	INT Ø in	WALL THICKNESS mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O
40	1" 5/8	5	765	5	15	200	9
45	1" 3/4	5.5	900	5	15	225	9
51	2"	5.5	1080	5	15	250	9
55	2" 1/8	5.5	1180	5	15	275	9
60	2" 1/32	6.2	1440	5	15	300	9
63	2" 1/2	6.2	1500	5	15	315	9
70	2" 3/4	6.5	1650	5	15	350	9
76	3"	6.5	1800	5	15	375	9
80	3" 1/8	6.5	1980	4	12	400	9
90	3" 1/2	7	2340	4	12	450	9
102	4"	7.5	2970	3	9	500	9
110	4" 3/4	7.5	3240	3	9	550	9
120	5"	7.5	3500	3	9	600	9
127	5"	7.5	3600	3	9	625	9
130	5" 1/2	7.5	3750	3	9	650	9
140	6"	7.5	5300	3	9	700	9
152	6"	9.5	5670	3	9	750	9
160	8"	9.5	6000	3	9	800	9
203	10"	11.5	9250	2.5	7.5	1000	9
254	12"	12.5	11700	2.5	7.5	1250	9
305	12"	12.5	13500	2.5	7.5	1500	9

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters.



Transfort® Antiestático

Tube made by co-extrusion of vinyl components, according to the European Quality Norm UNE EN ISO 3994. Reinforced inside with a non plasticized PVC spiral, practically non deformable and anti-choke, which provides it a great consistency. An antistatic product suitable for facilities governed by ATEX regulations.



Features

- The tube is smooth inside, which prevents from the formation of sediments and facilitates the sterilization of them.
- Equipped with a copper wire that makes it antistatic.
- Non toxic. Resistant to the atmospheric agents and to several chemical products.
- A copper wire is embedded in the wall, which provides the tube with anti-static properties when this wire is connected to earth.
- The recommended using temperature is within -40°C and 60°C.



INDUSTRIAL
USE



AGRICULTURAL
USE



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba



ANTISTATIC

Applications

- Draining of cesspools, sewers. Industrial sprinkling. Suction and impulsion of liquid manure and chemical products.
- Pneumatic transport of seeds and cereals.
- Transporting of powder and granules.
- Due to its great flexibility, it is recommended for using on tank cars.

INT Ø mm	INT Ø in	WALL THICKNESS mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O
40	1" 5/8	4.5	730	6	18	160	9
45	1" 3/4	5.0	900	6	18	180	9
50	2"	5.2	1050	5	15	200	9
60	2" 1/8	5.5	1250	4.5	13.5	240	9
63	2" 1/32	6.0	1390	4.5	13.5	250	9
70	2" 1/2	6.5	1600	4.5	13.5	280	9
75	2" 3/4	6.5	1700	4	12	300	9
80	3"	6.5	1850	3.5	10.5	320	9
90	3" 1/8	6.7	2250	3.5	10.5	360	9
102	3" 1/2	7.3	2700	3	9	410	9
105	4"	7.4	2900	3	9	420	9
110	4" 3/4	7.5	3100	3	9	440	9
120	5"	8.0	3600	2.5	7.5	480	9
125	5"	8.3	3900	2.5	7.5	500	9
150	5" 1/2	9.5	5000	2	6	600	9
200	6"	12.1	10000	2	6	800	9
250	6"	12.1	12400	1.5	4.5	1000	9

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters.



Transfort® PU

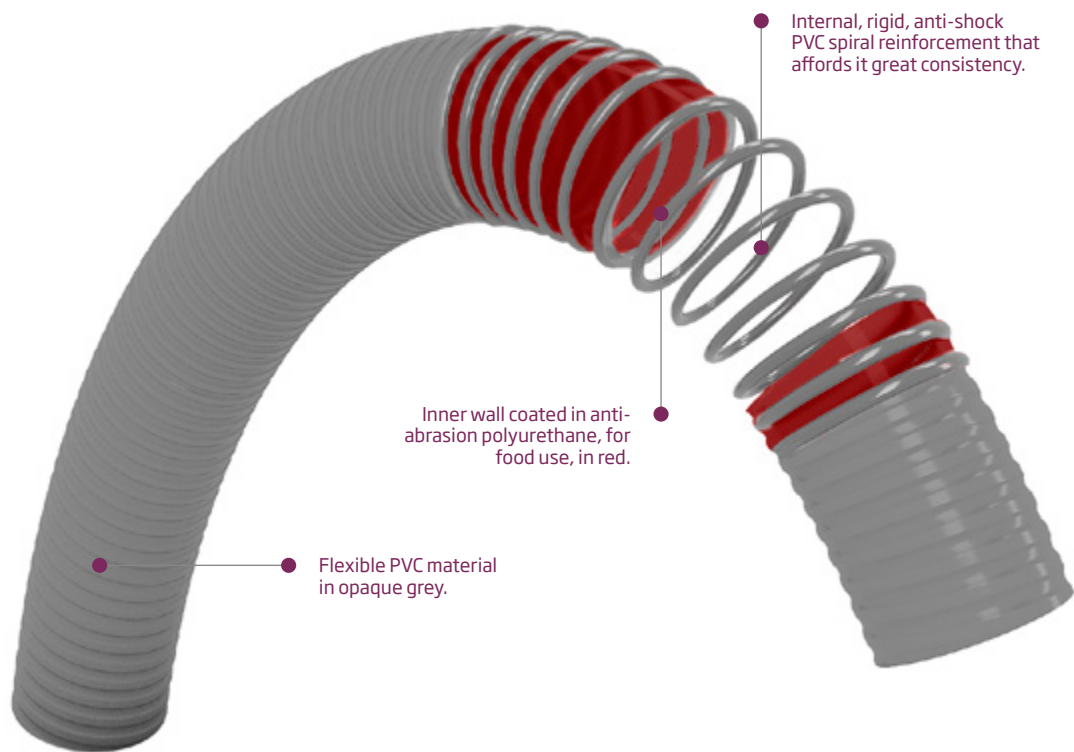
Pumping and suction hose for slurries, industrial irrigation, cesspits, bilges and products with a very high aggressiveness index. Internal polyurethane layer to grant it greater resistance to abrasion.

Applications

- For pumping and suction of abrasive liquids: sludge, sand, cement, gravel, etc.
- Highly abrasive products.

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TRANSFORT® PU



Features

- For agricultural, industrial and food use.
- Pumping and suction hose for slurries, industrial irrigation, cesspits, bilges and products that are extremely aggressive.
- Internal polyurethane layer to grant it greater resistance to abrasion.
- Recommended temperature for use between -10°C and 60°C.



INDUSTRIAL
USE



FOOD
USE



AGRICULTURAL
USE



ANTI-ABRASION



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba



59

TRANSFORT® PU

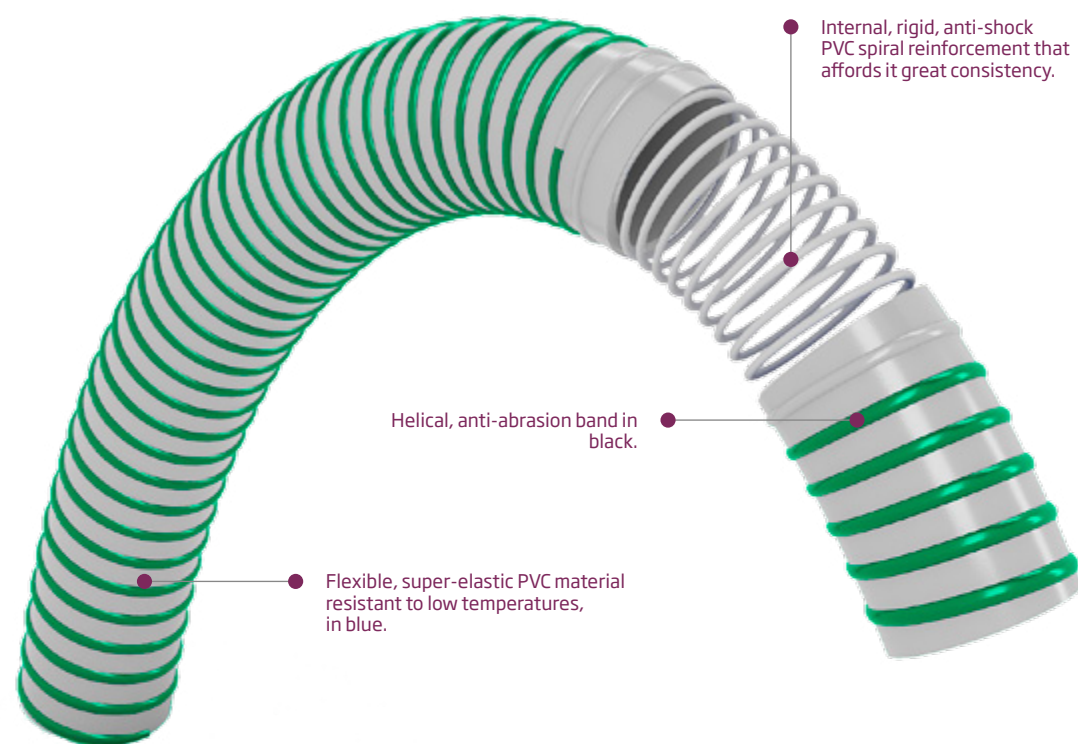
INT Ø mm	INT Ø in	WALL THICKNESS mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O
40	1" 5/8	5	800	9	27	400	9
51	2"	5.5	1200	8	24	500	9
60	2" 1/32	6	1600	7	21	600	9
63	2" 1/2	6.5	1750	7	21	630	9
70	2" 3/4	7	1900	6	18	700	9
76	3"	7	2000	6	18	760	9
80	3" 1/8	7	2200	6	18	800	9
90	3" 1/2	7.5	2600	5	15	900	9
102	4"	8	3100	5	15	1000	9
110	4" 5/16	8.3	3300	5	15	1100	9
127	5"	8.3	3600	3	9	1300	9
152	6"	10.5	6400	3	9	1600	9
203	8"	12.5	10200	2	6	2000	9

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters.



Transfort® Superelastic

Highly flexible hose for industrial irrigation and mobile tanks.
Especially recommended for facilities at low temperatures.
For pumping and suction of slurries and products with a high aggressiveness index. Suitable for temperatures down to -25°C.



Internal, rigid, anti-shock PVC spiral reinforcement that affords it great consistency.

Helical, anti-abrasion band in black.

Flexible, super-elastic PVC material resistant to low temperatures, in blue.

Features

- For agricultural and industrial use.
- Great flexibility, even at low temperatures.
- The hose wall is smooth on the inside and corrugated on the outside. It is equipped with a helical band that grants it greater resistance to abrasion when dragged across the ground.
- Good chemical resistance associated with PVC's resistance chart.
- Recommended temperature for use between -25°C and 60°C.
- Option in blue-black or gray-green.



INDUSTRIAL
USE



TANKER
TRUCK



AGRICULTURAL
USE



GREATER
FLEXIBILITY



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba

Applications

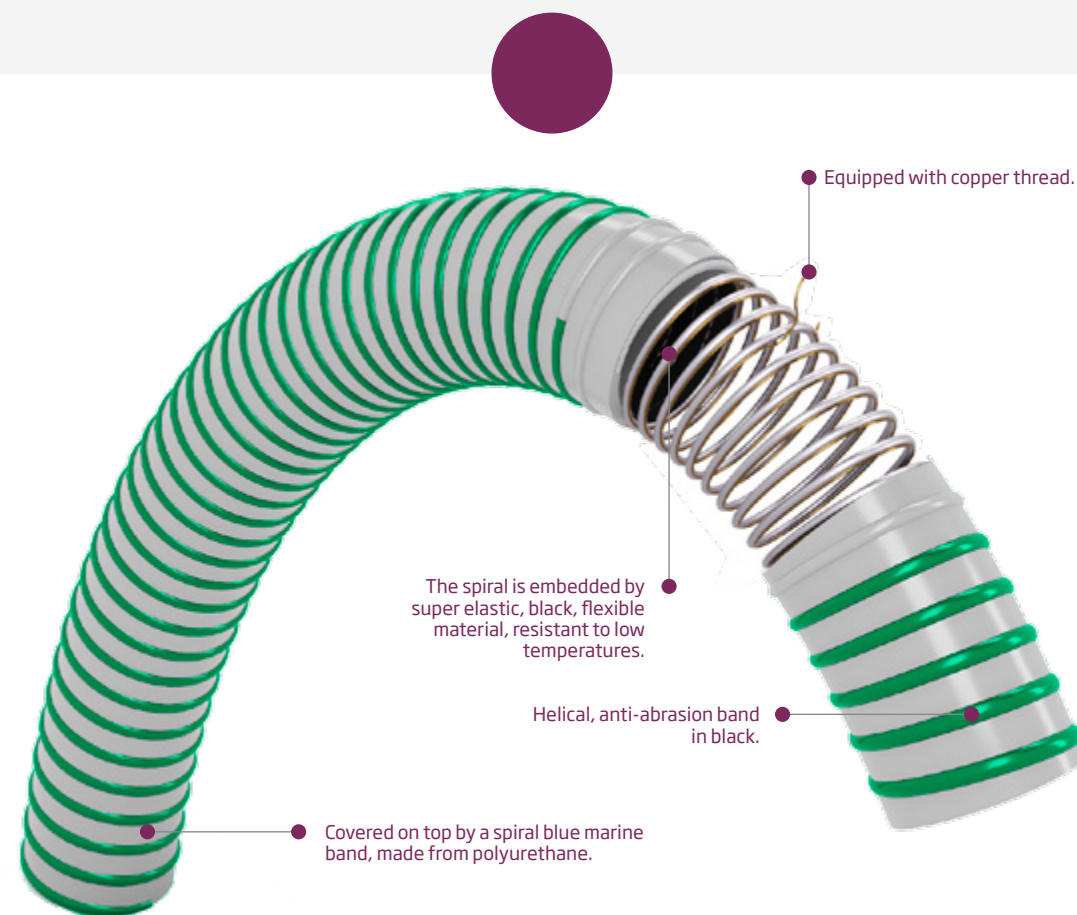
- ▶ Pumping and suction in agricultural and industrial irrigation and slurry.
- ▶ Transport of granulated materials and drainage of cesspits.
- ▶ Particularly suitable for low temperatures.
- ▶ Designed especially for use in tanker trucks.

INT Ø mm	INT Ø in	WALL THICKNESS mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O
40	1" 5/8	4.5	730	6	18	160	9
45	1" 3/4	5	900	6	18	180	9
51	2"	5.2	1050	5	15	200	9
60	2" 1/32	5.5	1250	4.5	13.5	240	9
63	2" 1/2	6	1390	4.5	13.5	250	9
70	2" 3/4	6.5	1600	4.5	13.5	280	9
76	3"	6.5	1700	4	12	300	9
80	3" 1/8	6.5	1850	3.5	10.5	320	9
90	3" 1/2	6.7	2250	3.5	10.5	360	9
102	4"	7.3	2700	3	9	410	9
110	4" 5/16	7.5	3100	3	9	440	9
120	5"	8	3600	2.5	7.5	480	9
127	6"	8.3	3900	2.5	7.5	500	9
152	8"	9.5	5000	2	6	600	9
203	10"	12.1	10000	2	6	800	9
254	10"	12.1	12400	1.5	4.5	1000	9

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters.

Transfort® Superelastic Antiestático

Tube made by co-extrusion of vinyl components, according to the European Quality Norm UNE EN ISO 3994. Reinforced inside with a non plasticized PVC spiral, practically non deformable and anti-choke, which provides it a great consistency. An antistatic product suitable for facilities governed by ATEX regulations.



Features

- The tube is smooth inside, which prevents from the formation of sediments and facilitates the sterilization of them.
- Equipped with a copper wire that makes it antistatic
- Non toxic. Resistant to the atmospheric agents and to several chemical products.
- A copper wire is embedded in the wall, which provides the tube with anti-static properties when this wire is connected to earth.
- The recommended using temperature is within -40°C and 60°C.



INDUSTRIAL
USE



TANKER
TRUCK



AGRICULTURAL
USE



GREATER
FLEXIBILITY



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba

Applications

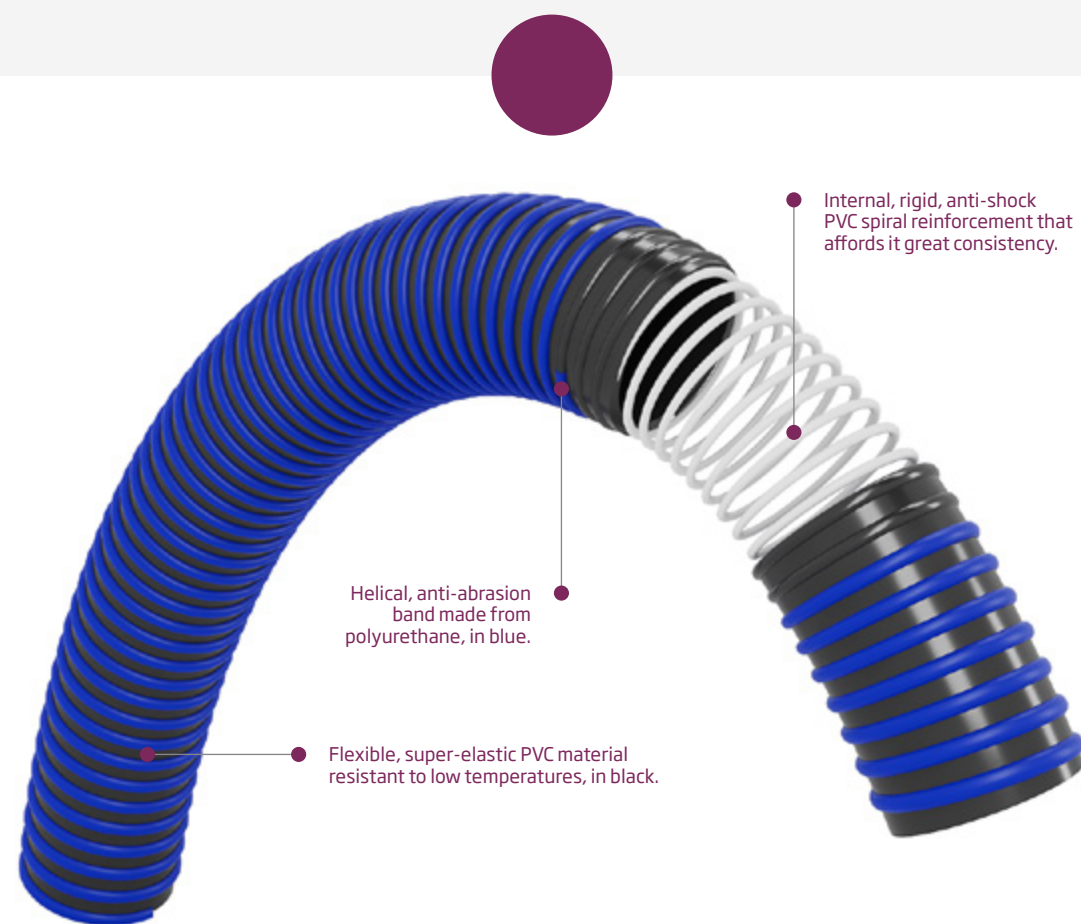
- ▶ Draining of cesspools, sewers. Industrial sprinkling. Suction and impulsion of liquid manure and chemical products.
- ▶ Pneumatic transport of seed and cereal.
- ▶ Transporting of powder and granules.
- ▶ Due to its great flexibility, it is recommended for using on tank cars.

INT Ø mm	INT Ø in	WALL THICKNESS mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O
40	1" 5/8	4.5	730	6	18	160	9
45	1" 3/4	5.0	900	6	18	180	9
50	2"	5.2	1050	5	15	200	9
60	2" 1/8	5.5	1250	4.5	13.5	240	9
63	2" 1/32	6.0	1390	4.5	13.5	250	9
70	2" 1/2	6.5	1600	4.5	13.5	280	9
75	2" 3/4	6.5	1700	4	12	300	9
80	3"	6.5	1850	3.5	10.5	320	9
90	3" 1/8	6.7	2250	3.5	10.5	360	9
102	3" 1/2	7.3	2700	3	9	410	9
105	4"	7.4	2900	3	9	420	9
110	4" 3/4	7.5	3100	3	9	440	9
120	5"	8.0	3600	2.5	7.5	480	9
125	5"	8.3	3900	2.5	7.5	500	9
150	5" 1/2	9.5	5000	2	6	600	9
200	6"	12.1	10000	2	6	800	9
250	6"	12.1	12400	1.5	4.5	1000	9

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters.

Transfort® Superflex

Highly flexible hose for industrial irrigation and mobile tanks.
Especially recommended for facilities at low temperatures.
For pumping and suction of slurries and products that are highly aggressive. Suitable for temperatures down to -40°C.



Features

- For agricultural and industrial use.
- Great flexibility, even at low temperatures.
- The hose wall is smooth on the inside and corrugated on the outside. The exterior of the hose is covered by a blue helical band made from polyurethane, which grants it great resistance to the abrasion caused by dragging the hose along the ground.
- Good chemical resistance associated with PVC's resistance chart.
- Recommended temperature for use between -40°C and 60°C.



INDUSTRIAL
USE



AGRICULTURAL
USE



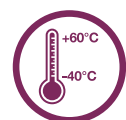
TANKER
TRUCK



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba



TEMPERATURES
-40°C TO 60°C

Applications

- ▶ Pumping and suction in agricultural and industrial irrigation and slurry.
- ▶ Transport of granulated materials and drainage of cesspits.
- ▶ Particularly suitable for low temperatures.
- ▶ Designed especially for use in tanker trucks and portable tanks.

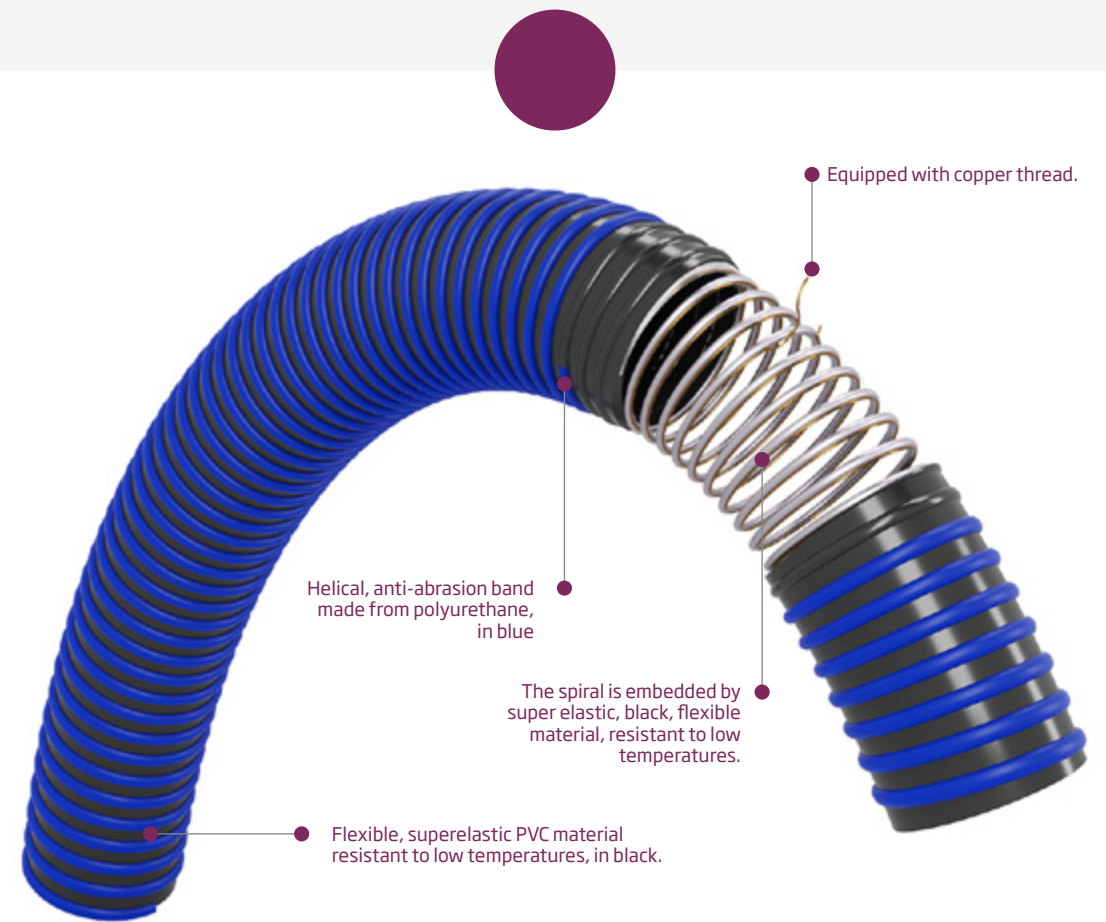
INT Ø mm	INT Ø in	WALL THICKNESS mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O
40	1" 5/8	4.5	730	6	18	160	9
45	1" 3/4	5	900	6	18	180	9
51	2"	5.2	1050	5	15	200	9
60	2" 1/32	5.5	1250	4.5	13.5	240	9
63	2" 3/4	6	1390	4.5	13.5	250	9
70	3"	6.5	1600	4.5	13.5	280	9
76	3" 1/8	6.5	1700	4	12	300	9
80	3" 1/2	6.5	1850	3.5	10.5	320	9
90	3" 1/2	6.7	2250	3.5	10.5	360	9
102	4"	7.3	2700	3	9	410	9
110	5"	7.5	3100	3	9	440	9
120	6"	8	3600	2.5	7.5	480	9
127	5"	8.3	3900	2.5	7.5	500	9
152	6"	9.5	5000	2	6	600	9
203	8"	12.1	10000	2	6	800	9
254	10"	12.1	12400	1.5	4.5	1000	9

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters.



Transfort® Superflex Antiestático

Tube made by co-extrusion of vinyl components, according to the European Quality Norm UNE EN ISO 3994. Reinforced inside with a non plasticized PVC spiral, practically non deformable and anti-choke, which provides it a great consistency. An antistatic product suitable for facilities governed by ATEX regulations.



Features

- The tube is smooth inside, which prevents from the formation of sediments and acilitates the sterilization of them.
- Equipped with a copper wire that makes it antistatic.
- Non toxic. Resistant to the atmospheric agents and to several chemical products.
- A copper wire is embedded in the wall, which provides the tube with anti-static properties when this wire is connected to earth.
- The recommended using temperature is within -40°C and 60°C.

INDUSTRIAL USE

AGRICULTURAL USE

TANKER TRUCK

HIGH QUALITY CONTROL

FREE FROM Cd / Pb / Ba

TEMPERATURES -40°C TO 60°C

ANTISTATIC

Applications

- ▶ Draining of cesspools, sewers. Industrial sprinkling. Suction and impulsion of liquid manure and chemical products.
- ▶ Pneumatic transport of seed and cereal.
- ▶ Transporting of powder and granules.
- ▶ Due to its great flexibility, it is recommended for using on tank cars.

INT Ø mm	INT Ø in	WALL THICKNESS mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O
40	1" 5/8	4.5	730	6	18	160	9
45	1" 3/4	5.0	900	6	18	180	9
50	2"	5.2	1050	5	15	200	9
60	2" 1/8	5.5	1250	4.5	13.5	240	9
63	2" 1/32	6.0	1390	4.5	13.5	250	9
70	2" 1/2	6.5	1600	4.5	13.5	280	9
75	2" 3/4	6.5	1700	4	12	300	9
80	3"	6.5	1850	3.5	10.5	320	9
90	3" 1/8	6.7	2250	3.5	10.5	360	9
102	3" 1/2	7.3	2700	3	9	410	9
105	4"	7.4	2900	3	9	420	9
110	4" 3/4	7.5	3100	3	9	440	9
120	5"	8.0	3600	2.5	7.5	480	9
125	5"	8.3	3900	2.5	7.5	500	9
150	5" 1/2	9.5	5000	2	6	600	9
200	6"	12.1	10000	2	6	800	9
250	6"	12.1	12400	1.5	4.5	1000	9

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters.

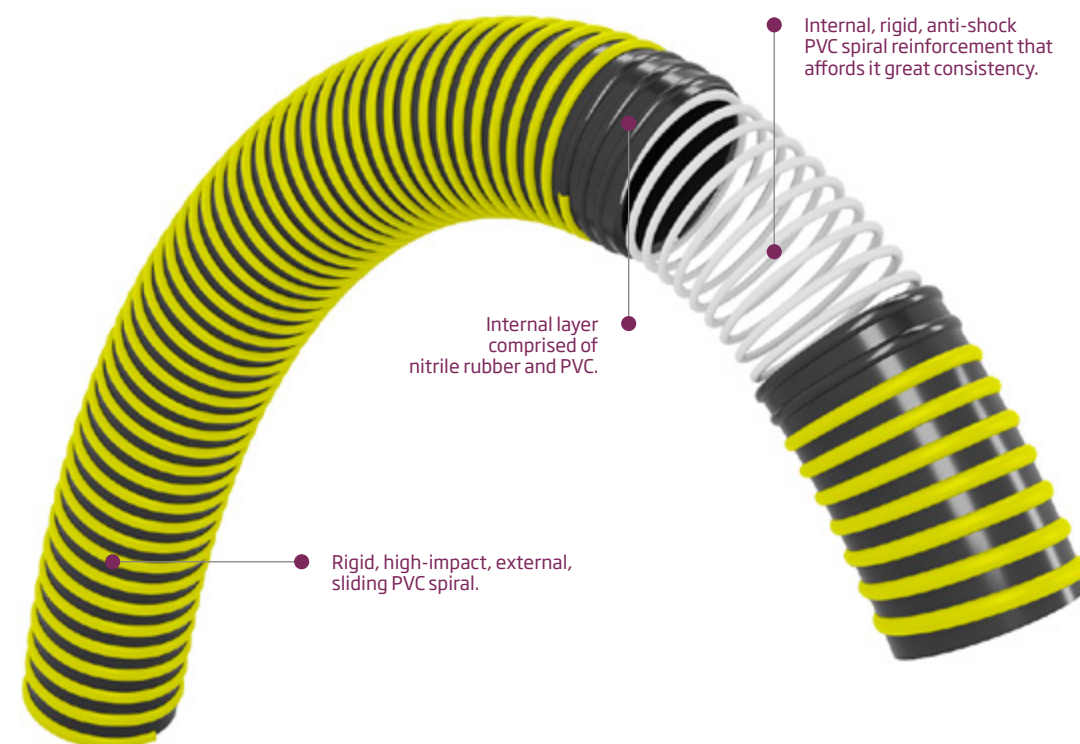


Espirotiger®

Hose designed to transport abrasive materials in harsh working conditions. Equipped with an internal layer comprised of nitrile rubber and PVC, in addition to a rigid, high-impact, external PVC spiral. Its special formulation makes this hose highly resistant and durable.

Applications

- ▶ Designed for use in civil works and shipyards.
- ▶ Transfer of abrasive materials, such as grains, gravel and cement.



Features

- For industrial use.
- The hose wall is smooth on the inside and corrugated on the outside.
- Good chemical resistance associated with PVC's resistance chart.
- Recommended temperature for use between -20°C and 60°C.
- Rigid PVC spiral on the hose's external surface, granting it greater resistance to wear and tear caused by dragging, and reducing its coefficient of friction with all kinds of surfaces.



INDUSTRIAL
USE



CONSTRUCTION



UV PROTECTION



SMOOTH
INTERIOR



ANTI-ABRASION



HIGH QUALITY
CONTROL



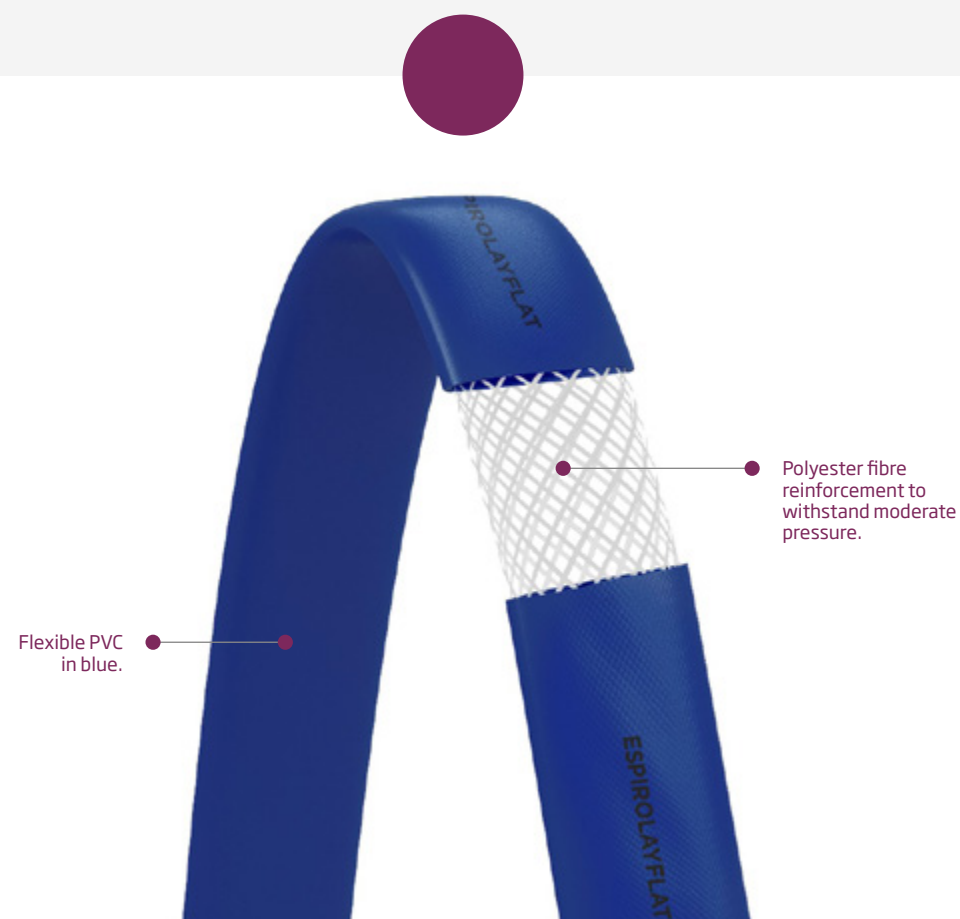
FREE FROM
Cd / Pb / Ba

INT Ø mm	INT Ø in	EXT Ø mm	TOTAL THICKNESS mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACU- UM m H ₂ O
45	1" 3/4	55	5.0	750	7	21	100	9
51	2"	63	6.5	820	7	21	130	9
64	2" 1/2	79	7.5	1340	7	21	160	9
76	3"	91	8.0	1600	5	15	205	9
102	4"	118	8.0	2760	4.5	13.5	240	9
127	5"	150	12.5	4300	4.5	13.5	270	9
152	6"	175	12.5	5100	4	12	300	9
203	8"	227	13.5	7200	3.5	10.5	320	9

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters.

Espirolayflat®

Flat, flexible, monolayer hose made from plasticised PVC, reinforced internally by polyester fibre.



Features

- Made of PVC for industrial and agricultural use, covering a polyester mesh such that it forms a single layer.
- Highly flexible and light.
- Thanks to its flat structure, it is easy to use and roll up, occupying little space.
- Easy to install.
- Adapted clamps should be employed during use to ensure the hose's subsequent good functioning.
- Recommended temperature for use between -10°C and 60°C.



ECONOMIC



INDUSTRIAL USE



AGRICULTURAL USE



TRANSPORT OF WATER



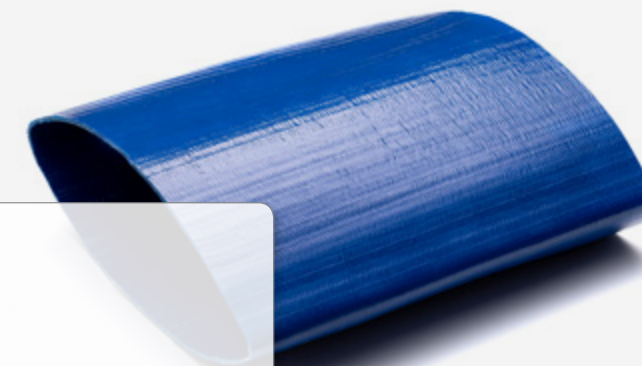
HIGH QUALITY CONTROL



FREE FROM Cd / Pb / Ba

Applications

- ▶ Piping agricultural drip irrigation.
- ▶ Piping water at low pressures.
- ▶ Particularly recommended for facilities that require the hose to be perforated in order to install the drip accessory.



INT Ø mm	INT Ø in	WALL THICKNESS mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	LONG ROLL mm
25	1"	1.1	140	8	24	100
30	1" 1/8	1.1	150	6	18	100
32	1" 1/4	1.1	170	6	18	100
40	1" 5/8	1.1	220	6	18	100
51	2"	1	240	5	15	100
63	2" 1/2	1.15	320	4	12	100
76	3"	1.15	400	4	12	100
90	3" 1/2	1.15	425	4	12	100
102	4"	1.20	445	4	12	100
110	4" 5/16	1.20	515	4	12	100
127	5"	1.35	800	4	12	100
152	6"	1.35	900	3	9	50
203	8"	2.20	1785	3	9	50

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters.



Waterflat® L

Flat hose to transfer and transport agricultural and construction irrigation at low pressure.

Applications

► Transfer, transport and pumping of drinking water, fertilisers and other liquids in agricultural irrigation and in construction.



Features

- For industrial and agricultural use, and construction.
- Its interior textile reinforcement allows it to withstand working pressures.
- Thanks to its flat structure, it is easy to use and roll up, occupying little space.
- Highly flexible and light.
- Easy to install.
- Adapted clamps should be employed during use to ensure the hose's subsequent good functioning.
- Recommended temperature for use between -10°C and 60°C.



INDUSTRIAL
USE



AGRICULTURAL
USE



CONSTRUCTION



HIGH QUALITY
CONTROL



FREE
Cd - Pb - Ba

INT Ø mm	INT Ø in	TOTAL THICKNESS mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	ELONGA- TION ΔL%	DILATION ΔD%	COLOURS AVAILABLE
25	1"	1.6	180	6	18	±7	±10	● ●
30	1" 1/8	1.6	200	6	18	±7	±10	
35	1" 3/8	1.6	240	6	18	±7	±10	● ●
40	1" 5/8	1.6	280	6	18	±7	±10	
45	1" 3/4	1.6	320	6	18	±7	±10	● ●
51	2"	1.6	375	6	18	±7	±10	
55	2" 1/8	1.8	400	6	18	±7	±10	● ●
63	2" 1/2	1.8	430	5	15	±7	±10	
70	2" 3/4	1.8	450	5	12	±7	±10	● ●
76	3"	1.8	550	5	12	±7	±10	
80	3" 1/8	1.8	560	5	12	±7	±10	● ●
90	3" 1/2	2.1	660	5	12	±7	±10	
102	4"	2.1	760	4	10.5	±7	±10	● ●
110	4" 5/16	2.2	1000	4	10.5	±7	±10	
127	5"	2.2	1180	4	10.5	±7	±10	● ●
152	6"	2.2	1300	4	10.5	±7	±10	

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters.

Waterflat® M

Flat hose to pump liquids, for agricultural irrigation and to transport water in general at medium pressures.
Striated hose for greater resistance to dragging.

Applications

- ▶ Pumping in bilge pumps, washing down, quarries, etc.
- ▶ Agricultural irrigation.
- ▶ Transport of water in general.



Features

- For industrial and agricultural use.
- Striated hose for greater resistance to dragging.
- Its interior textile reinforcement allows it to withstand medium working pressures.
- Thanks to its flat structure, it is easy to use and roll up, occupying little space.
- Highly flexible and light.
- Easy to install.
- Adapted clamps should be employed during use to ensure the hose's subsequent good functioning.
- Recommended temperature for use between -10°C and 60°C.



INDUSTRIAL
USE



AGRICULTURAL
USE



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba

INT Ø mm	INT Ø mm	TOTAL THICKNESS mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	ELONGATION ΔL%	DILATION ΔD%
25	1"	2.2	240	10	30	±7	±10
30	1" 1/8	2.2	275	10	30	±7	±10
32	1" 1/4	2.2	290	10	30	±7	±10
35	1" 3/8	2.2	300	10	30	±7	±10
38	1" 1/2	2.2	335	10	30	±7	±10
40	1" 5/8	2.2	350	10	30	±7	±10
45	1" 3/4	2.2	400	10	30	±7	±10
51	2"	2.2	480	8	24	±7	±10
55	2" 1/8	2.2	500	7	21	±7	±10
63	2" 1/2	2.2	540	7	21	±7	±10
70	2" 3/4	2.2	620	7	21	±7	±10
76	3"	2.4	750	7	21	±7	±10
80	3" 1/8	2.4	800	7	21	±7	±10
90	3" 1/2	2.4	900	7	21	±7	±10
102	4"	2.4	1050	6	18	±7	±10
110	4" 5/16	2.4	1150	6	18	±7	±10
127	5"	2.5	1390	6	18	±7	±10
152	6"	3	1800	4	12	±7	±10
203	8"	2.5	2000	3	9	±7	±10

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters



Waterflat® H

Flat hose that is highly resistant to abrasion and pressure.
For the pumping of pumps in bilges, washing down and quarries.
Agricultural irrigation and water transport in general.



Features

- For industrial and agricultural use.
- Its interior textile reinforcement allows it to withstand working pressures of up to 14 bar.
- Thanks to its flat structure, it is easy to use and roll up, occupying little space.
- Highly flexible and light.
- Easy to install.
- Adapted clamps should be employed during use to ensure the hose's subsequent good functioning.
- Recommended temperature for use between -10°C and 60°C.



INDUSTRIAL
USE



AGRICULTURAL
USE



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba

Applications

- ▶ Pumping in bilge pumps, washing down, quarries, etc.
- ▶ Agricultural irrigation.
- ▶ Transport of water in general.



INT Ø mm	INT Ø in	TOTAL THICKNESS mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESURE bar	ELONG- ATION ΔL%	DILATION ΔD%	COLOURS AVAILABLE
40	1" 5/8	2.5	440	14	42	±7	±10	 
45	1" 3/4	2.5	480	14	42	±7	±10	
51	2"	2.5	520	12	36	±7	±10	
55	2" 1/8	2.5	580	12	36	±7	±10	
63	2" 1/2	2.8	750	12	36	±7	±10	
70	2" 3/4	2.8	840	12	36	±7	±10	
76	3"	2.8	880	12	36	±7	±10	
90	3" 1/2	3.1	1150	10	30	±7	±10	
102	4"	3.1	1300	10	30	±7	±10	
110	4" 5/16	3.2	1480	10	30	±7	±10	
127	5"	3.2	1625	8	24	±7	±10	
152	6"	3.2	2000	6	18	±7	±10	

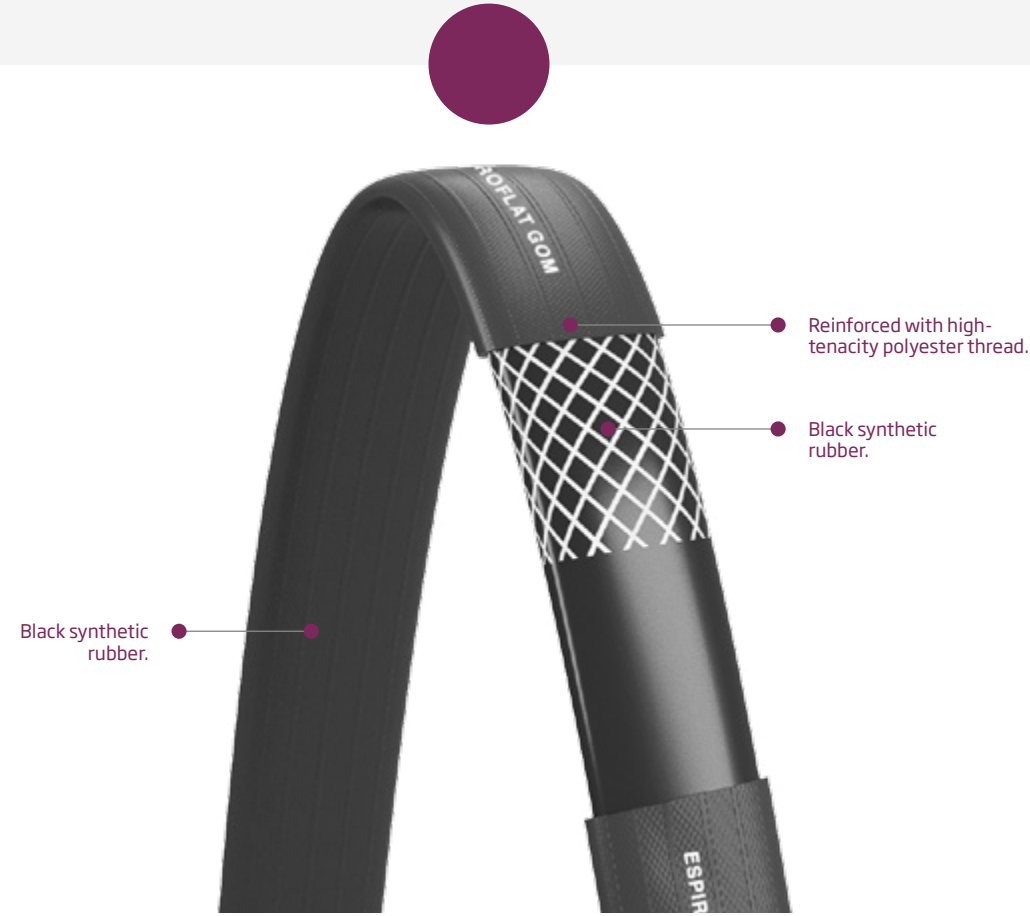
Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters.



LIQUIDS

Espiroflat® Rubber

Flat hose composed of nitrile rubber and PVC with special resistance to industrial oils. Designed for pumps, civil works and agriculture



Features

- Non-toxic but not for food use.
- Minimum pressure drop thanks to its smooth wall.
- Manufactured on a circular loom with hightenacity polyester thread.
- External longitudinal grooves to improve abrasion resistance and improve handling.
- The recommended temperature for use is between -20 °C and 75 °C.

INDUSTRIAL USE

AGRICULTURAL USE

HIGH TEMPERATURES

RUBBER FEEL

HIGH QUALITY CONTROL

FREE FROM Cd / Pb / Ba

Applications

- Flat, easy-to-use hose for discharging pumps and use in construction works, quarries, mines and agriculture.
- Excellent resistance to abrasion and oils.

INT Ø mm	INT Ø in	TOTAL THICKNESS mm	WEIGHT g/m	OPERAT- ING PRESSURE bar	MINIMUM BURST PRESSURE bar	ELONGATION ΔL%	DILATION ΔD%
40	1" 5/8	2,1	360	10	30	±7	±10
45	1" 3/4	2,1	400	10	30	±7	±10
51	2"	2,1	450	8	24	±7	±10
63	2" 1/2	2,2	580	7	21	±7	±10
70	2" 3/4	2,2	645	7	21	±7	±10
75	3"	2,3	720	7	21	±7	±10
80	3" 1/8	2,3	770	7	21	±7	±10
90	3" 1/2	2,4	900	7	21	±7	±10
102	4"	2,4	1000	6	18	±7	±10
110	4" 5/16	2,5	1140	6	18	±7	±10
125	5"	2,7	1400	6	18	±7	±10
152	6"	3,0	1885	4	12	±7	±10

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters.



Sodigom®

Flat, flexible hose made from black synthetic rubber, reinforced internally with polyester fibre, for discharging pumps and use in construction work, mines and agriculture in general.

Applications

- Flat, easy-to-use hose for discharging pumps and use in construction works, quarries, mines and agriculture.
- Excellent resistance to abrasion and oils.



Features

- For industrial and agricultural use.
- Minimum pressure drop thanks to its smooth wall.
- Made of high-tenacity polyester thread using a circular loom.
- Longitudinal, external striations to improve resistance to abrasion and improve handling.
- Recommended temperature for use between -20°C and 80°C.



INDUSTRIAL
USE



AGRICULTURAL
USE



HIGH
TEMPERATURES



RUBBER
FEEL



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba

INT Ø mm	INT Ø in	TOTAL THICKNESS mm	WEIGHT g/m	OPERAT- ING PRESSURE bar	MINIMUM BURST PRESSURE bar	ELONGATION ΔL%	DILATION ΔD%
20	3/4"	2.1	180	20	60	±7	±10
25	1"	2.1	280	20	60	±7	±10
38	1" 1/2	2.1	350	16	48	±7	±10
45	1" 3/4	2.1	400	16	48	±7	±10
51	2"	2.25	500	16	48	±7	±10
63	2" 1/2	2.25	600	16	48	±7	±10
70	2" 3/4	2.50	680	15	45	±7	±10
76	3"	2.6	750	13	39	±7	±10
80	3" 1/8	2.7	900	13	39	±7	±10
90	3" 1/2	2.9	1000	13	39	±7	±10
102	4"	3	1100	13	39	±7	±10
110	4" 5/16	3	1400	10	30	±7	±10
127	5"	3	1700	10	30	±7	±10
152	6"	3	2400	10	30	±7	±10
203	8"	3	2400	10	30	±7	±10

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters.

Transvin® Phthalates Free

Phthalate-free, PVC hose for transferring and transporting wine and all kinds of alcoholic liquids (50% vol.), in addition to milk products and their by-products. Manufactured in accordance with European legislation on raw materials for non-fatty food use.

Applications

- Transfer of liquid food products that require food simulants A, B, C and D1 in OM2 conditions in accordance with Regulation EU 10/2011, such as wine, must, beer, vinegar and alcoholic liquids up to 50% vol. and milk products.

In possession of phthalate-free, migration and FDA regulation compliance certificates.

Internal, rigid, anti-shock PVC spiral reinforcement.

Flexible, transparent PVC material for food use.

FDA

Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011 (see declaration of conformity).
- The hose wall is smooth, both inside and outside.
- Good chemical resistance associated with PVC's resistance chart.
- Recommended temperature for use between -10°C and 60°C.



FOOD
USE



TANKER
TRUCK



MILK PRODUCT
TRANSPORT



WINE
TRANSPORT



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba



PHTHALATE-FREE

INT Ø mm	INT Ø in	WALL THICKNESS mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O
25	1"	3.1	390	8	24	125	9
30	1" 1/8	4	480	8	24	150	9
32	1" 1/4	4	500	8	24	160	9
35	1" 3/8	4.2	580	8	24	175	9
38	1" 1/2	4.2	670	8	24	190	9
40	1" 5/8	4.3	685	8	24	200	9
45	1" 3/4	4.5	850	8	24	225	9
51	2"	5	1020	8	24	250	9
55	2" 1/8	5	1190	7	21	275	9
60	2" 1/4	5.2	1260	7	21	300	9
63	2" 1/2	5.6	1320	7	21	310	9
70	2" 3/4	5.8	1615	6	18	350	9
76	3"	5.8	1700	6	18	375	9
80	3" 1/8	6	1870	5	15	400	9
90	3" 1/2	6.5	2156	5	15	450	9
102	4"	7	2680	4	12	500	9
110	4" 5/16	7.3	3060	4	12	550	9
120	4" 3/4	7.4	3320	4	12	600	9
127	5"	7.6	3485	4	12	625	9
152	6"	8.5	5355	3	9	760	9

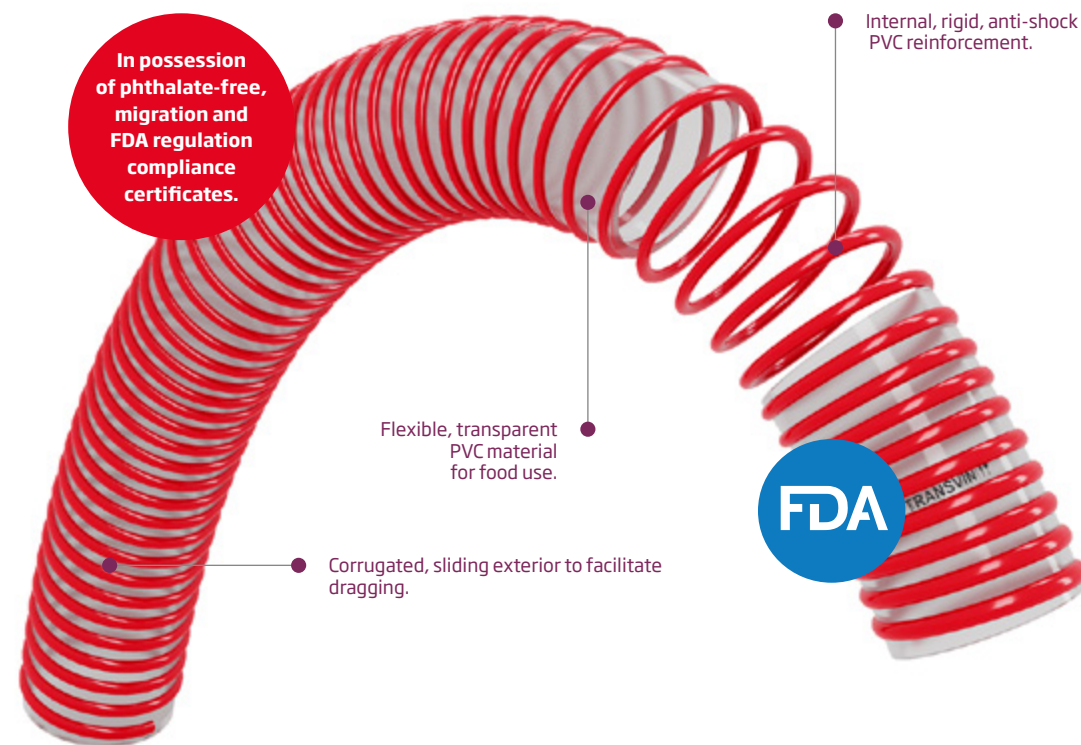
Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters.

Transvin® Phthalates Free Sliding

Phthalate-free PVC hose for transferring and transporting wine, alcoholic liquid foods (50% vol.), and milk products and their by-products. Manufactured in accordance with European legislation on raw materials for non-fatty food use. The hose's exterior is corrugated, with a rigid, sliding spiral to facilitate dragging.

Applications

- ▶ Transfer of liquid food products that require food simulants A, B, C and D1 in OM2 conditions in accordance with Regulation EU 10/2011, such as wine, must, beer, vinegar and alcoholic liquids up to 50% vol. and milk products.



Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011 (see declaration of conformity).
- The hose wall is smooth on the inside and corrugated on the outside.
- Good chemical resistance associated with PVC's resistance chart.
- Recommended temperature for use between -10°C and 60°C.

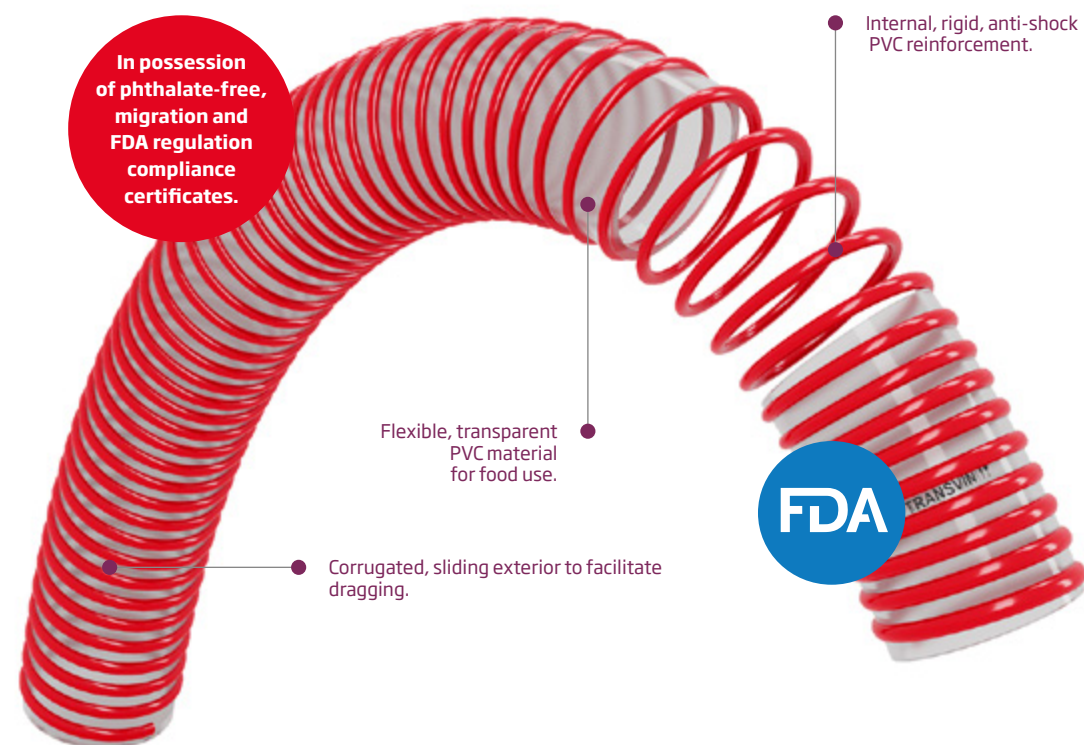


INT Ø mm	INT Ø in	WALL THICKNESS mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O
25	1"	3.5	390	8	24	125	9
30	1" 1/8	4	480	8	24	150	9
32	1" 1/4	4	500	8	24	160	9
35	1" 3/8	4.2	580	8	24	175	9
38	1" 1/2	4.2	670	8	24	190	9
40	1" 5/8	4.3	685	8	24	200	9
45	1" 3/4	4.5	850	8	24	225	9
51	2"	5	1020	8	24	250	9
55	2" 1/8	5	1190	7	21	275	9
60	2" 1/32	5.2	1260	7	21	300	9
63	2" 1/2	5.6	1320	7	21	310	9
70	2" 3/4	5.8	1615	6	18	350	9
76	3"	5.8	1700	6	18	375	9
80	3" 1/8	6	1870	5	15	400	9
90	3" 1/2	6.5	2156	5	15	450	9
102	4"	7	2680	4	12	500	9
110	4" 5/16	7.3	3060	4	12	550	9
120	4" 3/4	7.4	3320	4	12	600	9
127	5"	7.6	3485	4	12	625	9
152	6"	8.5	5355	3	9	760	9

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters.

Transvin® Superelastic Phthalates Free

Pipe with smooth outer surface, manufactured by coextrusion of vinyl compounds, according to the UNE EN ISO 3994 standard, in crystal color transparent with a red spiral, practically non-deformable and anti-shock, which gives it great consistency.



Features

- Formulation is free of phthalates, which allows use with alcoholic liquids up to 50°, as well as with fatty food liquids such as oils and dairy products.
- Free of anisoles and halophenols, so it does not add strange odors or flavors to the liquid that circulates inside it..
- The inner surface of the tube is smooth, which prevents the formation of sediments and facilitates tube sterilization work.
- It resists atmospheric agents and various chemical products.
- The recommended temperature for use is between -15°C and 60°C.



FOOD
USE



TANKER
TRUCK



MILK PRODUCT
TRANSPORT



WINE
TRANSPORT



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba



PHthalate-FREE

Applications

- Transfer of wines, musts, beers, vinegars, cognac and alcohols up to 50°.
- Suction and discharge of food products, including oils and dairy products.

INT Ø mm	INT Ø in	WALL THICKNESS mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O
40	1" ½	4,3	685	8	24	160	9
51	2"	5,0	1020	8	24	200	9
60	2" ½	5,2	1260	7	21	240	9
70	2" ¾	5,8	1615	6	18	280	9
80	3" ¼	6,0	1870	5	15	360	9
102	4"	7,2	2700	4	12	400	9
120	5"	7,4	3320	4	12	480	9

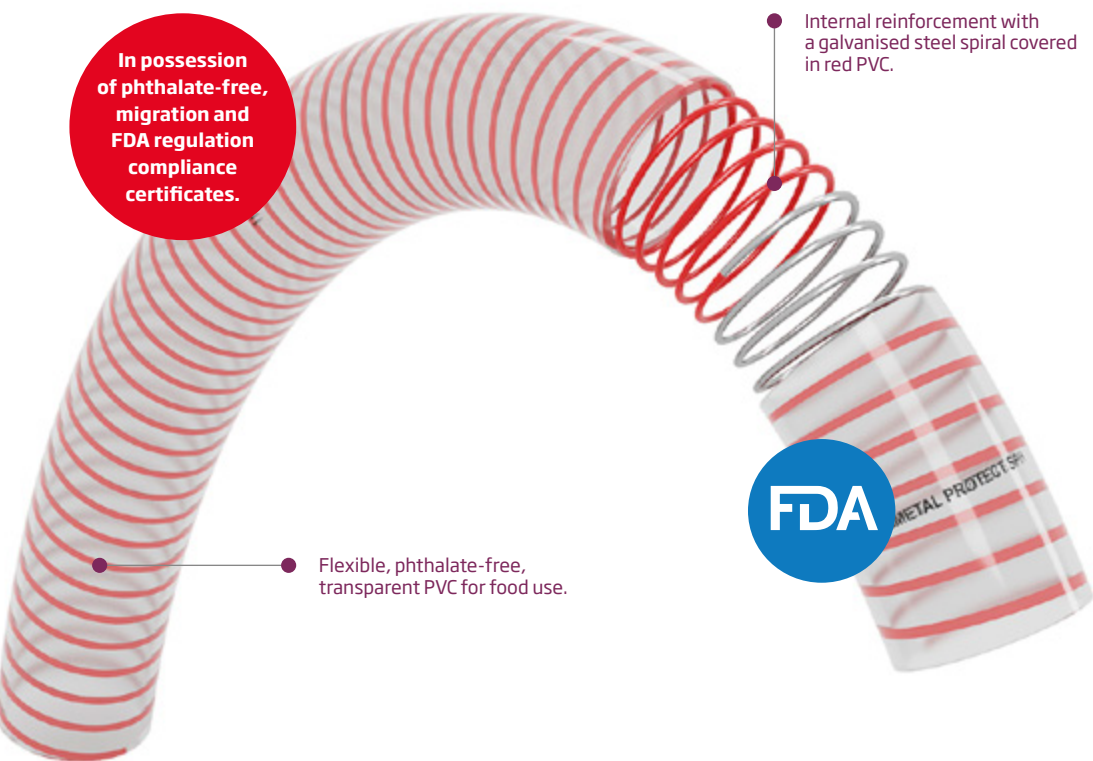
Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters.

Transmetal® Protect

Hose manufactured by co-extrusion of vinyl compounds, internally reinforced with a galvanised steel spiral covered in red PVC.

Applications

- ▶ Transfer of liquid food products that require food simulants A, B, C and D1 in OM2 conditions in accordance with Regulation EU 10/2011, such as wine, must, beer, alcohols up to 50% vol. and milk products.



Features

- For industrial use and food use in accordance with European regulations EC 1935/2004 and EU 10/2011.
- Made of flexible, phthalate-free, transparent PVC.
- The hose wall is smooth, both inside and outside.
- Hose with good chemical resistance associated with PVC's usual properties.
- Good resistance to pressure and vacuum when suctioning.
- Recommended temperature for use between -20°C and 60°C.



INT Ø mm	INT Ø in	WALL THICKNESS mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O
25	1"	4.0	480	9	27	50	9
32	1" 1/4	4.2	622	9	27	65	9
40	1" 5/8	4.8	950	9	27	80	9
51	2"	5.4	1300	7	21	100	9
60	2" 1/32	6.0	1750	6	18	120	9
70	2" 3/4	6.1	2100	5	15	140	9
80	3" 1/8	6.5	2500	4	12	120	9

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters.

Transmetal[®] Phthalates Free

Phthalate-free hose for transferring air, plastic chippings, alcoholic liquids (50% vol.), liquid foods and for vacuum pumps. Reinforced with a galvanised steel spiral, which grants it vacuum resistance.

Applications

- ▶ Transfer of liquid food products that require food simulants A, B, C and D1 in OM2 conditions in accordance with Regulation EU 10/2011, such as wine, must, beer, vinegar and alcoholic liquids up to 50% vol. and milk products.

In possession of phthalate-free, migration and FDA regulation compliance certificates.

Internal reinforcement with galvanised steel spiral.

Flexible, transparent, phthalate-free PVC material for food use.

FDA

Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011. (See declaration of conformity).
- Highly flexible.
- Good resistance to pressure and vacuum when suctioning.
- The hose wall is smooth, both inside and outside.
- Good chemical resistance associated with PVC's resistance chart.
- Recommended temperature for use between -10°C and 60°C.



INDUSTRIAL
USE



FOOD
USE



AGRICULTURAL
USE



NAUTICAL
USE



WINE
TRANSPORT



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba



PHTHALATE-FREE

INT Ø mm	INT Ø in	WALL THICKNESS mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O
10	3/8"	3.1	180	9	27	20	9
12	1/2"	3.1	190	9	27	20	9
13	1/2"	3.1	210	9	27	26	9
14	5/8"	3.1	230	9	27	28	9
16	5/8"	3.1	260	9	27	32	9
20	3/4"	3.5	340	9	27	40	9
22	7/8"	3.5	400	9	27	44	9
25	1"	4	520	9	27	50	9
30	1" 1/8	4.2	630	9	27	60	9
32	1" 1/4	4.2	660	9	27	64	9
35	1" 3/8	4.3	750	9	27	70	9
38	1" 1/2	4.5	800	9	27	76	9
40	1" 5/8	4.8	950	9	27	80	9
42	1" 3/4	4.8	1040	9	27	84	9
45	1" 3/4	4.9	1150	9	27	90	9
51	2"	5.4	1300	7	21	100	9
55	2" 1/8	5.4	1460	6	18	110	9
60	2" 1/32	6	1750	6	18	120	9
63	2" 1/2	6.1	1800	6	18	125	9
70	2" 3/4	6.1	2100	5	15	140	9
76	3"	6.5	2250	5	15	150	9
80	3" 1/8	6.5	2500	4	12	160	9
90	3" 1/2	7	2900	4	12	180	9
102	4"	7	3650	3	9	200	9
110	4" 5/16	7.2	3950	3	9	220	9
120	4" 3/4	8	4300	3	9	240	9
127	5"	8	4600	3	9	250	9
152	6"	10	6600	2.5	7	300	9

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters.

Transmetal® NT Phthalates Free

Phthalate-free hose for transferring air, plastic chippings, alcoholic liquids (50% vol.), liquid foods and for vacuum pumps. Reinforced with a galvanised steel spiral, which grants it vacuum resistance.

Applications

- ▶ Transfer of liquid food products that require food simulants A, B, C and D1 in OM2 conditions in accordance with Regulation EU 10/2011, such as wine, must, beer, vinegar and alcoholic liquids up to 50% vol. and milk products.

In possession of phthalate-free, migration and FDA regulation compliance certificates.

Internal reinforcement with galvanised steel spiral.

Flexible, transparent, phthalate-free PVC material for food use.

FDA

Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011. (See declaration of conformity).
- Highly flexible.
- Good resistance to pressure and vacuum when suctioning.
- The hose wall is smooth, both inside and outside.
- Good chemical resistance associated with PVC's resistance chart.
- Recommended temperature for use between -10°C and 60°C.



INDUSTRIAL
USE



FOOD
USE



AGRICULTURAL
USE



NAUTICAL
USE



WINE
TRANSPORT



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba



PHTHALATE-FREE

INT Ø mm	INT Ø in	WALL THICKNESS mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O
20	3/4"	3.50	365	7	21	35	9
25	1"	4.00	470	6	18	44	9
30	1" 1/8	4.00	540	6	18	55	9
32	1" 1/4	4.00	640	6	18	60	9
35	1" 3/8	4.00	665	6	18	65	9
38	1" 1/2	4.00	735	6	18	70	9
40	1" 5/8	4.40	835	5	15	75	9
45	1" 3/4	4.40	990	5	15	75	9
51	2"	4.60	1110	5	15	90	9
60	2" 1/32	4.60	1290	4	12	110	9
63	2" 1/2	4.60	1375	4	12	115	9
76	3"	5.60	2000	3	9	130	9
80	3" 1/8	5.60	2125	3	9	140	9
90	3" 1/2	5.60	2365	3	9	160	9
102	4"	6.00	2930	3	8	180	9
102	4"	6.0	3015	3	8	185	9
110	4" 5/16	6.0	3150	3	8	195	9
120	4" 3/4	7.0	4020	2	6	215	9
127	5"	7.0	4180	2	6	220	9
152	6"	7.5	5410	2	5	270	9

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters.

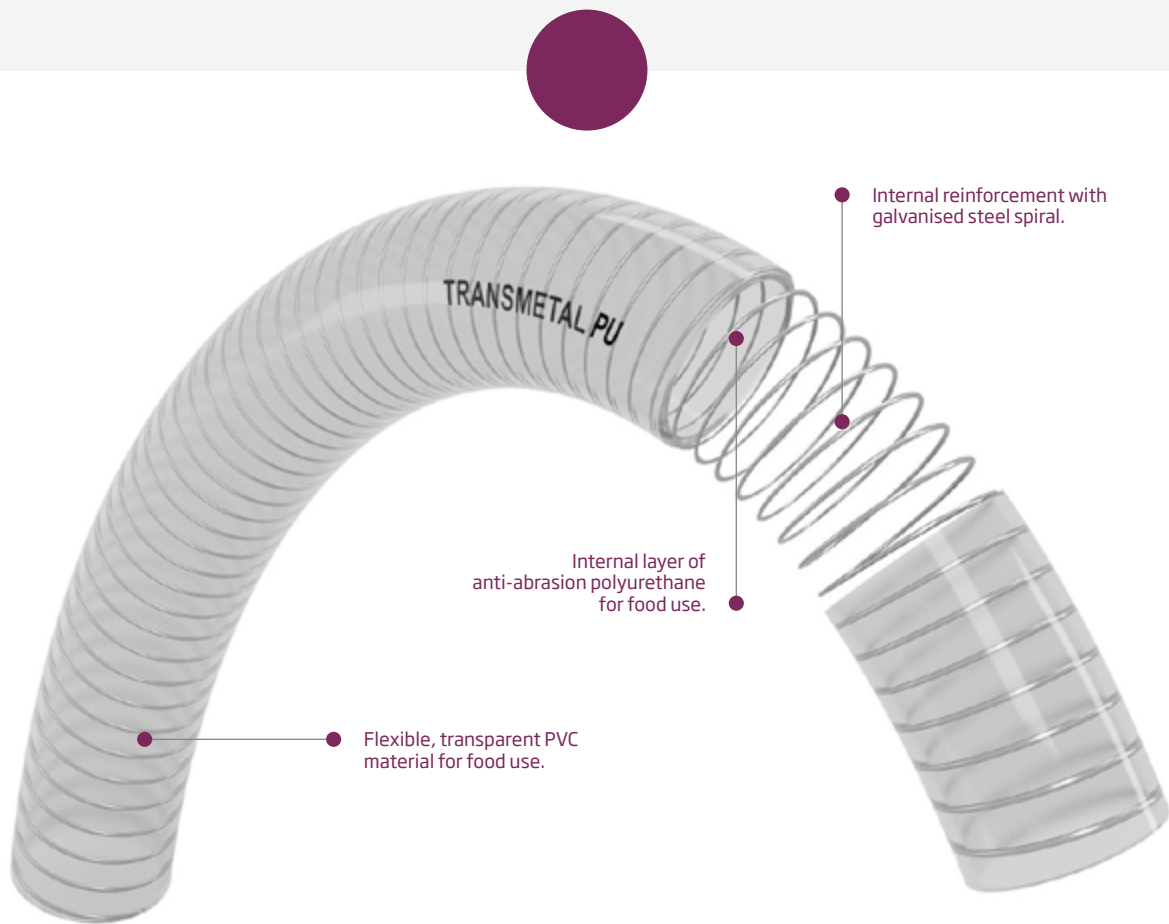
Transmetal® PU

Flexible, transparent PVC hose, reinforced with a galvanised steel spiral and an internal polyurethane layer.

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TRANSMETAL® PU

ESPIROFLEX. MANUFACTURE OF FLEXIBLE HOSES



Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011 (see declaration of conformity).
- Highly resistant to abrasion, thanks to its internal polyurethane layer of 0.5 mm.
- Good resistance to pressure and vacuum when suctioning.
- The hose wall is smooth, both inside and outside.
- Good chemical resistance associated with PU's resistance chart.
- Recommended temperature for use between -20°C and 70°C.

INDUSTRIAL USE

FOOD USE

AGRICULTURAL USE

NAUTICAL USE

WINE TRANSPORT

MADE FROM POLYURETHANE

ANTI-ABRASION

HIGH QUALITY CONTROL

FREE FROM Cd / Pb / Ba

Applications

- ▶ Transport of pneumatic, hydraulic and chemical liquids. For transferring air, plastic chippings, alcoholic liquids up to 20% vol., liquid foods that require food simulants A, B and C in OM2 conditions according to Regulation EU 10/2011.
- ▶ Vacuum pumps. Facilities that require great flexibility.
- ▶ Cleaning machinery (sewage, sediments, muds, etc.).
- ▶ Cleaning of pipelines.

INT Ø mm	INT Ø in	WALL THICKNESS mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O
40	1" 5/8	4.8	950	9	27	80	9
45	1" 3/4	4.9	1150	9	27	90	9
51	2"	5.4	1300	7	21	100	9
55	1" 1/8	5.4	1460	6	18	110	9
60	2" 1/32	6	1750	6	18	120	9
63	2" 1/2	6.1	1900	5	15	130	9
70	2" 3/4	6.1	2100	5	15	140	9
76	3"	6.5	2250	5	15	150	9
80	3" 1/8	6.5	2500	4	12	160	9
90	3" 1/2	7	2900	4	12	180	9
102	4"	7	3650	3	9	200	9
102	4"	7.2	3850	3	9	210	9
110	4" 5/16	7.2	3950	3	9	220	9
120	4" 3/4	8	4300	3	9	240	9
127	5"	8	4600	3	9	250	9
152	6"	10	6600	2.5	7	300	9

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

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TRANSMETAL® PU

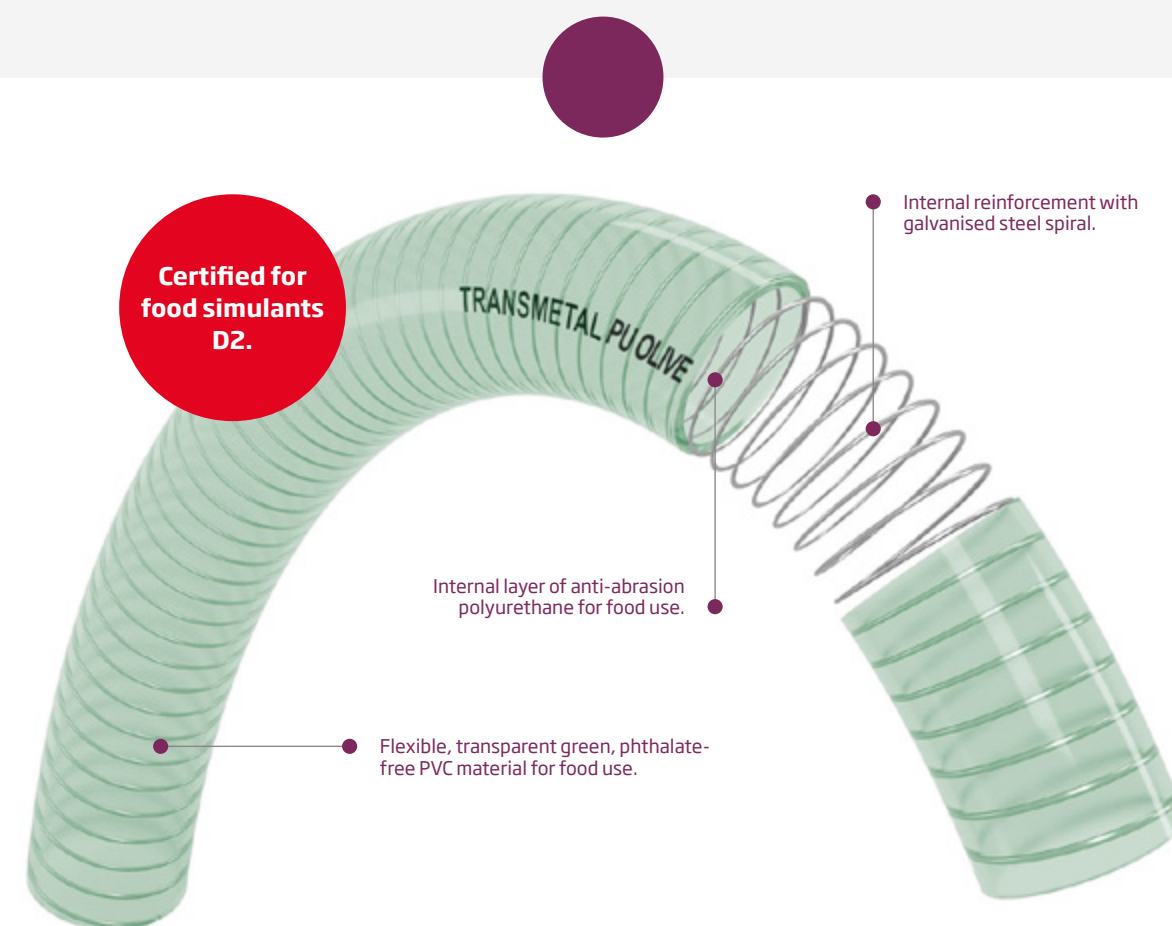
ESPIROFLEX. MANUFACTURE OF FLEXIBLE HOSES

Transmetal® PU Olive Oil

Flexible, phthalate-free PVC hose, reinforced with a galvanised steel spiral and an internal, polyester-base, polyurethane layer.

Applications

- ▶ Transporting and transferring vegetable oils (olive, sunflower, soya, etc.) and those liquid foods that require food simulant D2 in accordance with Regulation EU 10/2011.



Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011. (See declaration of conformity).
- Highly resistant to abrasion, thanks to its internal polyurethane layer of 0.5 mm.
- Good resistance to pressure and vacuum when suctioning.
- The hose wall is smooth, both inside and outside.
- Good chemical resistance associated with PU's resistance chart.
- Recommended temperature for use between -20°C and 80°C.



ANTISTATIC



MADE FROM
POLYURETHANE



ANTI-ABRASION



HIGH QUALITY
CONTROL



STEEL SPIRAL



PHthalate - FREE

INT Ø mm	INT Ø in	WALL THICKNESS mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O
40	1" 5/8	4.8	950	9	27	80	9
45	1" 3/4	4.9	1150	9	27	90	9
51	2"	5.4	1300	7	21	100	9
55	2" 1/8	5.4	1460	6	18	110	9
60	2" 1/32	6	1750	6	18	120	9
63	2" 1/2	6.1	1900	5	15	130	9
70	2" 3/4	6.1	2100	5	15	140	9
76	3"	6.5	2250	5	15	150	9
80	3" 1/8	6.5	2500	4	12	160	9
90	3" 1/2	7	2900	4	12	180	9
102	4"	7	3650	3	9	200	9
110	4" 5/16	7.2	3950	3	9	220	9
120	4" 3/4	8	4300	3	9	240	9
127	5"	8	4600	3	9	250	9
152	6"	10	6600	2.5	7	300	9

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters.

Espirofood® PU

Flexible, phthalate-free PVC hose, reinforced with a rigid, anti-shock PVC spiral and an internal, polyester-base, polyurethane layer.

Applications

- ▶ Pumping and suction of liquid foods that require food simulant D2 in OM2 conditions in accordance with Regulation EU 10/2011.

Certified for food simulants D2.

Internal, rigid, anti-shock PVC spiral reinforcement.

Internal layer of polyurethane for food use.

Flexible, transparent green, phthalate-free PVC material for food use.

Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011 (see declaration of conformity).
- Internal layer of polyurethane for food use, which grants it anti-abrasion characteristics.
- The hose wall is smooth, both inside and outside.
- Good chemical resistance associated with PU's resistance chart.
- Recommended temperature for use between -20°C and 80°C.



MADE FROM
POLYURETHANE



ANTI-ABRASION



HIGH QUALITY
CONTROL



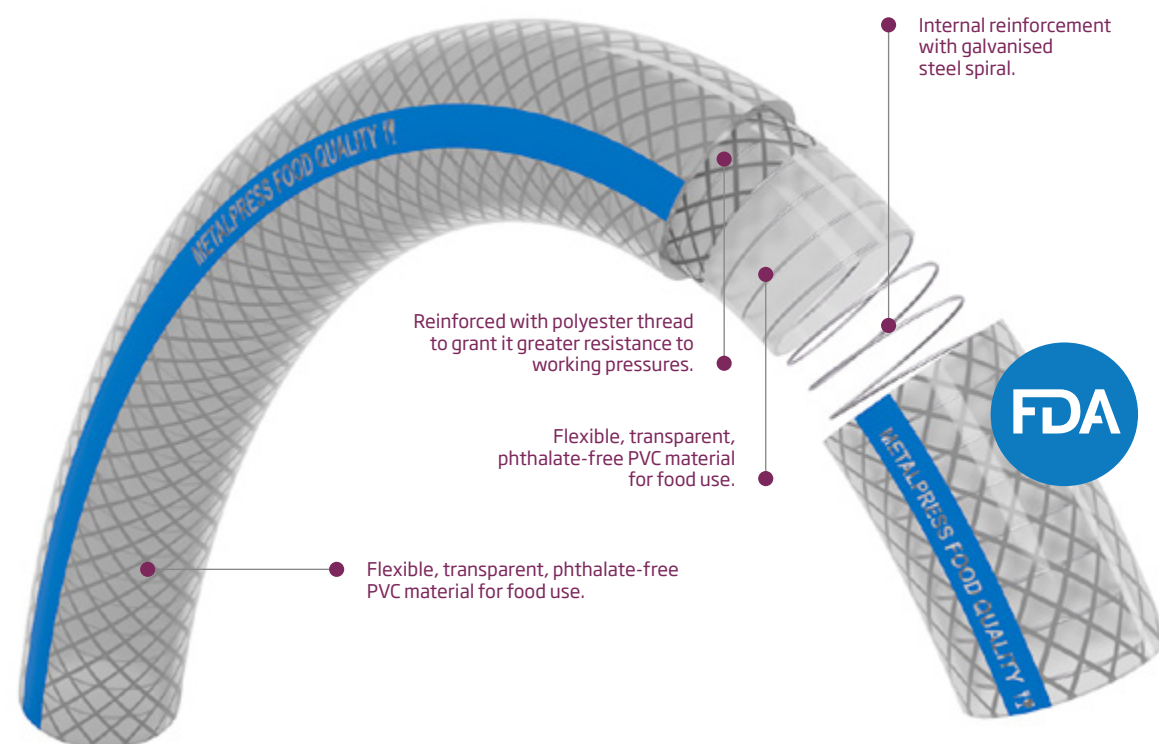
PHthalate-FREE

INT Ø mm	INT Ø in	WALL THICKNESS mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O
25	1"	4.5	458	5	16	125	9
30	1" 1/8	4.5	555	5	16	150	9
35	1" 3/8	4.5	640	5	16	175	9
40	1" 5/8	5.0	722	5	16	200	9
45	1" 3/4	5.5	850	5	16	225	9
51	2"	5.5	1020	5	16	250	9
60	2" 1/4	5.5	1360	5	16	300	9
63	1" 1/2	5.5	1450	5	16	325	9
70	2" 3/4	6.0	1600	5	16	350	9
76	3"	6.5	1700	5	16	375	9
80	3" 1/8	7.0	1870	4	12.5	400	9
90	3" 1/2	7.5	2210	4	12.5	450	9
102	4"	8.0	2800	3	9.5	500	9
110	4" 5/16	8.5	3060	3	9.5	550	9

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters.

Metalpress® Food

Phthalate-free PVC hose with double reinforcement - textile and metal spiral - for suction and transfer of liquid foods and alcoholic liquids (50% vol.), in addition to milk products.



Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011 (see declaration of conformity).
- Good resistance to pressure and vacuum when suctioning.
- The hose wall is smooth, both inside and outside.
- Good chemical resistance associated with PVC's resistance chart.
- Recommended temperature for use between -25°C and 60°C.



Applications

- ▶ Transfer of liquid food products that require food simulants A, B, C and D1 in OM2 conditions in accordance with Regulation EU 10/2011, such as wine, must, beer, vinegar and alcoholic liquids up to 50% vol. and milk products.
- ▶ Irrigation systems, cleaning of large containers and industrial equipment in general.

INT Ø mm	INT Ø in	EXT Ø mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O
19	¾	28	475	16	48	60	9
25	1"	35	680	16	48	70	9
32	1" ¼	42	800	16	48	80	9
35	1" ⅜	47	1100	14	42	115	9
38	1" ½	51	1200	14	42	125	9
40	1" ⅝	53	1220	14	42	130	9
45	1" ¾	58	1400	12	36	140	9
51	2"	64	1600	12	36	150	9
60	2" ¼	74	2000	12	36	180	9
63	2" ½	77	2100	12	36	190	9
76	3"	92	2900	12	36	210	9
90	3" ½	107	3500	10	30	250	9
102	4"	119	4000	10	30	300	9

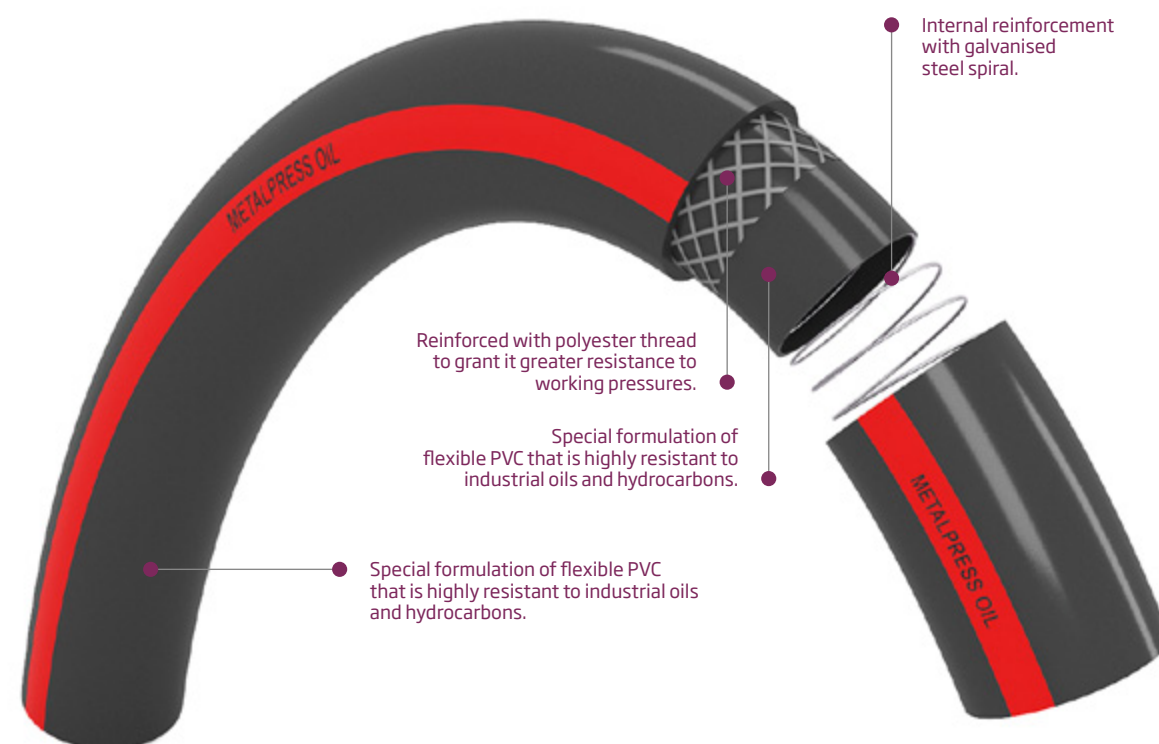
Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters.

Metalpress® Oil

Phthalate-free PVC hose with double reinforcement - textile and metal spiral - for suction and transfer of industrial oils and fuels.

Applications

► Suction and transfer of hydrocarbons and industrial oils.



Features

- For industrial use.
- Special formulation for industrial oils and hydrocarbons (diesel, gasoline, etc.).
- Good resistance to pressure and vacuum when suctioning.
- The hose wall is smooth, both inside and outside.
- Good chemical resistance associated with PVC's resistance chart.
- Recommended temperature for use between -20°C and 70°C.



INDUSTRIAL
USE



AGRICULTURAL
USE



NAUTICAL
USE



RESISTANT TO
HYDROCARBONS



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba

INT Ø mm	INT Ø in	EXT Ø mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O
20	3/4	28	475	16	48	60	9
25	1"	35	680	16	48	70	9
32	1" 1/4	42	800	16	48	80	9
35	1" 3/8	47	1100	14	42	115	9
38	1" 1/2	51	1200	14	42	125	9
40	1" 5/8	53	1220	14	42	130	9
45	1" 3/4	58	1400	12	36	140	9
51	2"	64	1600	12	36	150	9
60	2" 1/4	74	2000	12	36	180	9
63	1" 1/2	77	2100	12	36	190	9
76	3"	92	2900	12	36	210	9
90	3" 1/2	107	3500	10	30	250	9
102	4"	119	4000	10	30	300	9

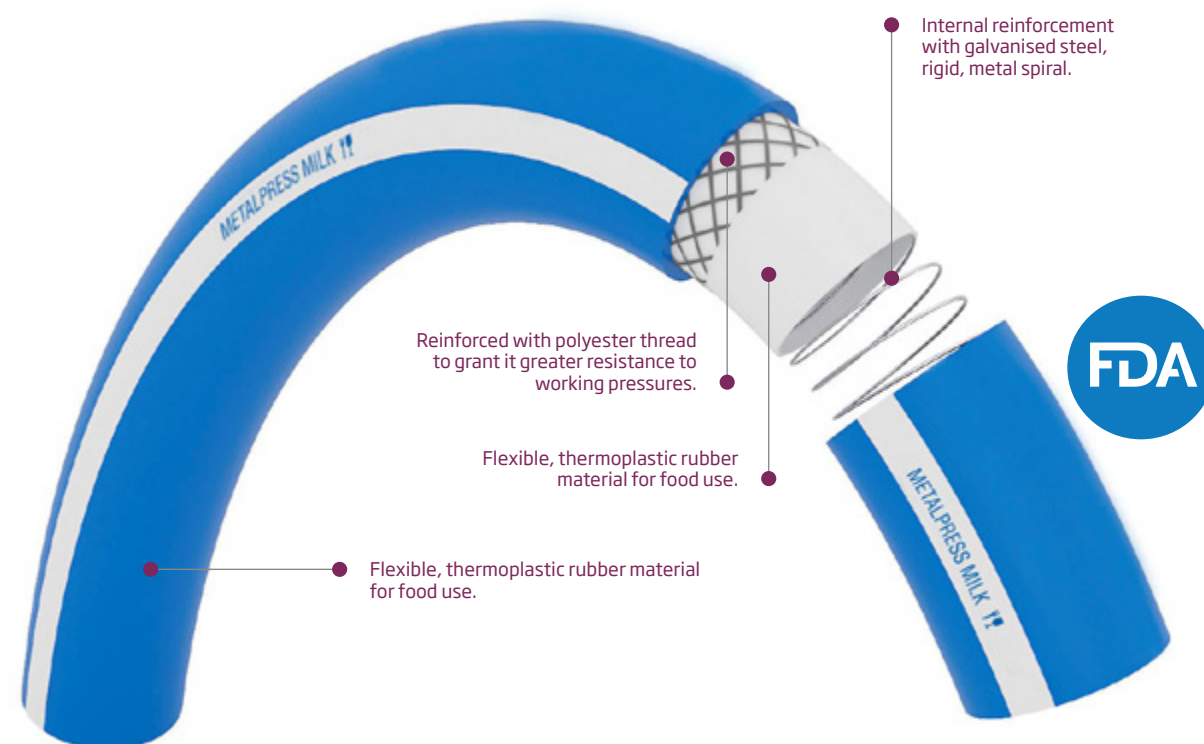
Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters.

Metalpress® Milk

Thermoplastic rubber (TPV) hose with double reinforcement - textile and metal spiral - for suction and transfer of fatty liquid foods. Designed especially for milk products. Can be sterilised at 90°C.

Applications

- ▶ Transfer of potable water, liquid milk products and those that are coherent with the declaration of conformity.



Features

- For food use according to FDA 21 CFR section 177.2600 and ANSI/NSF Standard 51: "Food Equipment". Materials" and NSF/ANSI Standard 61: "Drinking Water System Components" (see declaration of conformity).
- Very flexible, even at low temperatures.
- Hose with good chemical resistance to chemical products, associated with TPV's resistance chart.
- Recommended temperature for use between -30°C and 90°C.



FOOD
USE



INDUSTRIAL
USE



MILK PRODUCT
TRANSPORT



HIGH QUALITY
CONTROL



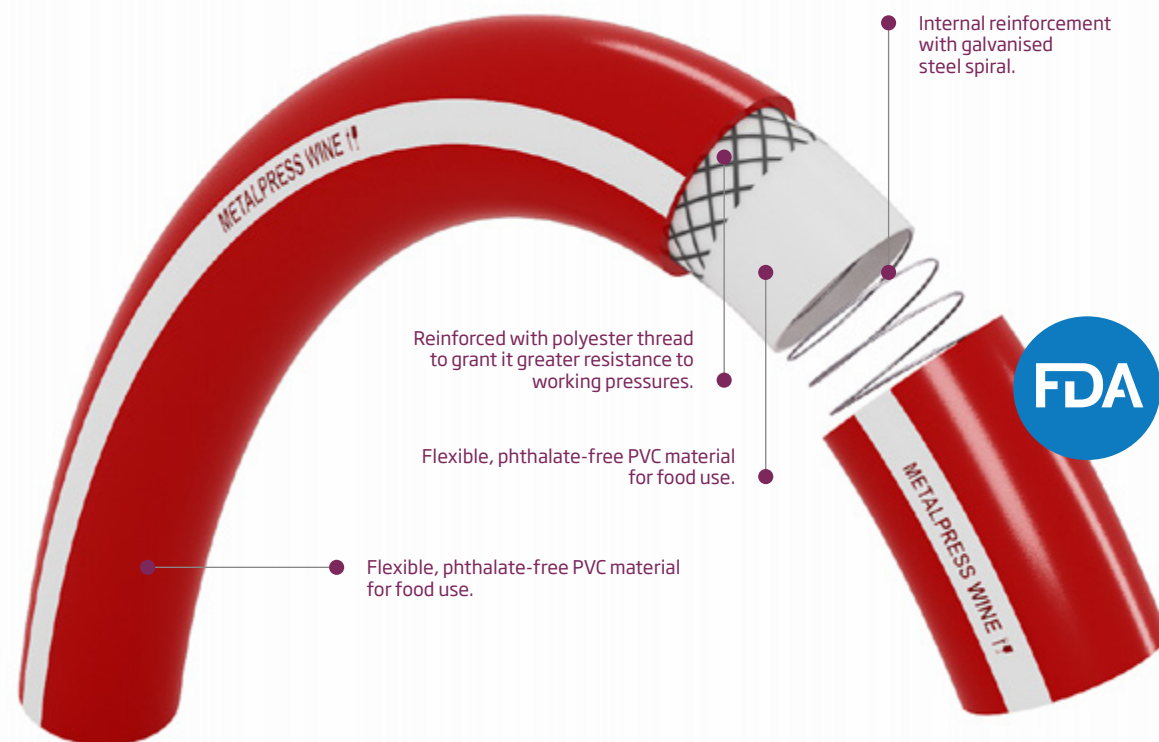
FREE FROM
Cd / Pb / Ba

INT Ø mm	INT Ø in	EXT Ø mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O
20	3/4"	28	543	16	48	55	9
25	1"	35	680	16	48	70	9
32	1" 1/4	42	800	16	48	80	9
35	1" 3/8	47	1100	14	42	115	9
38	1" 1/2	51	1200	14	42	125	9
40	1" 5/8	53	1220	14	42	130	9
45	1" 3/4	58	1400	12	36	140	9
51	2"	64	1600	12	36	150	9
60	2" 1/4	74	2000	12	36	180	9
63	2" 1/2	77	2100	12	36	190	9
76	3"	92	2900	12	36	210	9
80	3" 1/8	97	3150	12	36	230	9
90	3" 1/2	107	3500	10	30	250	9
102	4"	119	4000	10	30	300	9

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters.

Metalpress® Wine

Phthalate-free PVC hose with double reinforcement - textile and metal spiral - for suction and transfer of liquid foods and alcoholic liquids (50% vol.), in addition to milk products. Especially designed for the pumping and suction of musts, wines, beers and liqueurs. Version available with resistance up to 90°C.



Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011 (see declaration of conformity).
- Good resistance to pressure and vacuum when suctioning.
- The hose wall is smooth, both inside and outside.
- Good chemical resistance associated with PVC's resistance chart.
- Recommended temperature for use between -25°C and 60°C (optional version of up to 90°C).



INDUSTRIAL
USE



FOOD
USE



WINE
TRANSPORT



HIGH QUALITY
CONTROL



PHthalate-FREE



FREE FROM
Cd / Pb / Ba

Applications

- ▶ Transfer of liquid food products that require food simulants A, B, C and D1 in OM2 conditions in accordance with Regulation EU 10/2011, such as wine, must, beer, vinegar and alcoholic liquids up to 50% vol. and milk products.
- ▶ Emptying wine tanks.

INT Ø mm	INT Ø in	EXT Ø mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O
20	3/4"	28	543	16	48	55	9
25	1"	35	680	16	48	70	9
32	1" 1/4	42	800	16	48	80	9
35	1" 3/8	47	1100	14	42	115	9
38	1" 1/2	51	1200	14	42	125	9
40	1" 5/8	53	1220	14	42	130	9
45	1" 3/4	58	1400	12	36	140	9
51	2"	64	1600	12	36	150	9
60	2" 1/4	74	2000	12	36	180	9
63	2" 1/2	77	2100	12	36	190	9
76	3"	92	2900	12	36	210	9
80	3" 1/8	97	3150	12	36	230	9
90	3" 1/2	107	3500	10	30	250	9
102	4"	119	4000	10	30	300	9

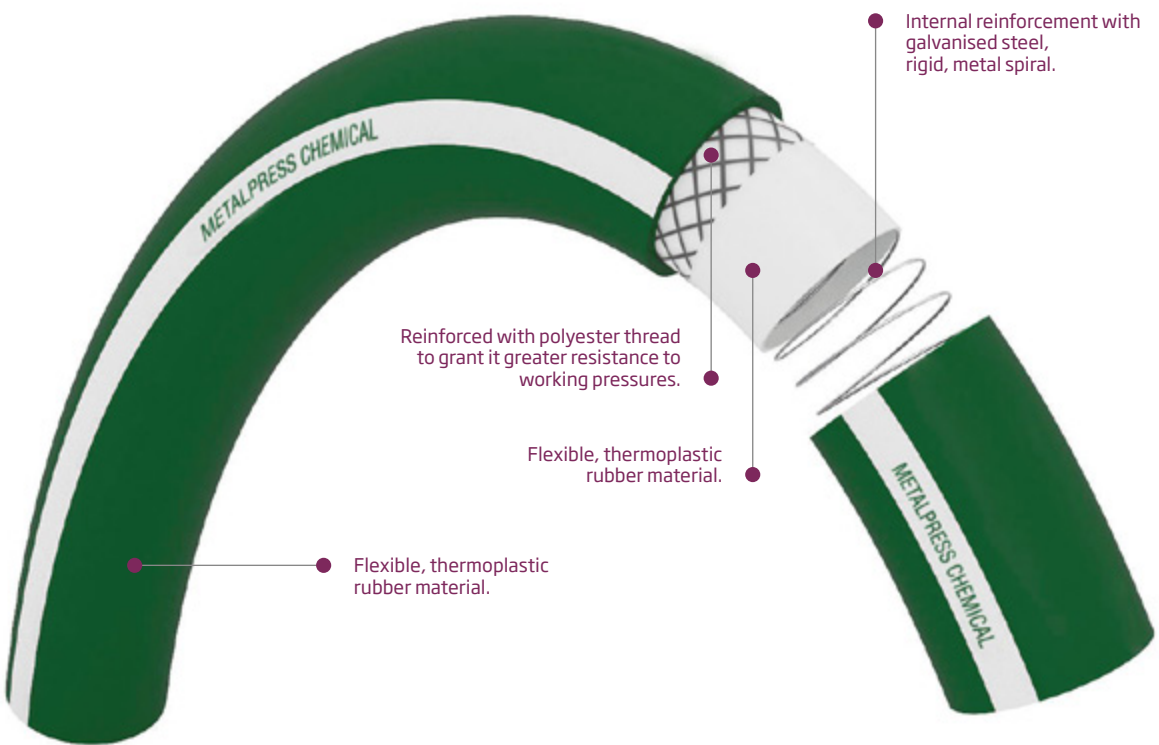
Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters.

Metalpress® Chemical

Thermoplastic rubber (TPV) hose with double reinforcement
- textile and metal spiral - for suction and transfer of products in
the chemical industry (see chemical resistance chart).

Applications

► Transfer of chemical products, associated with TPV's
resistance chart.



Features

- Industrial use.
- Very flexible, even at low temperatures.
- Hose with good chemical resistance to chemical products, associated with TPV's resistance chart.
- Recommended temperature for use between -25°C and 80°C.



INDUSTRIAL
USE



HIGH QUALITY
CONTROL



PHthalate-FREE



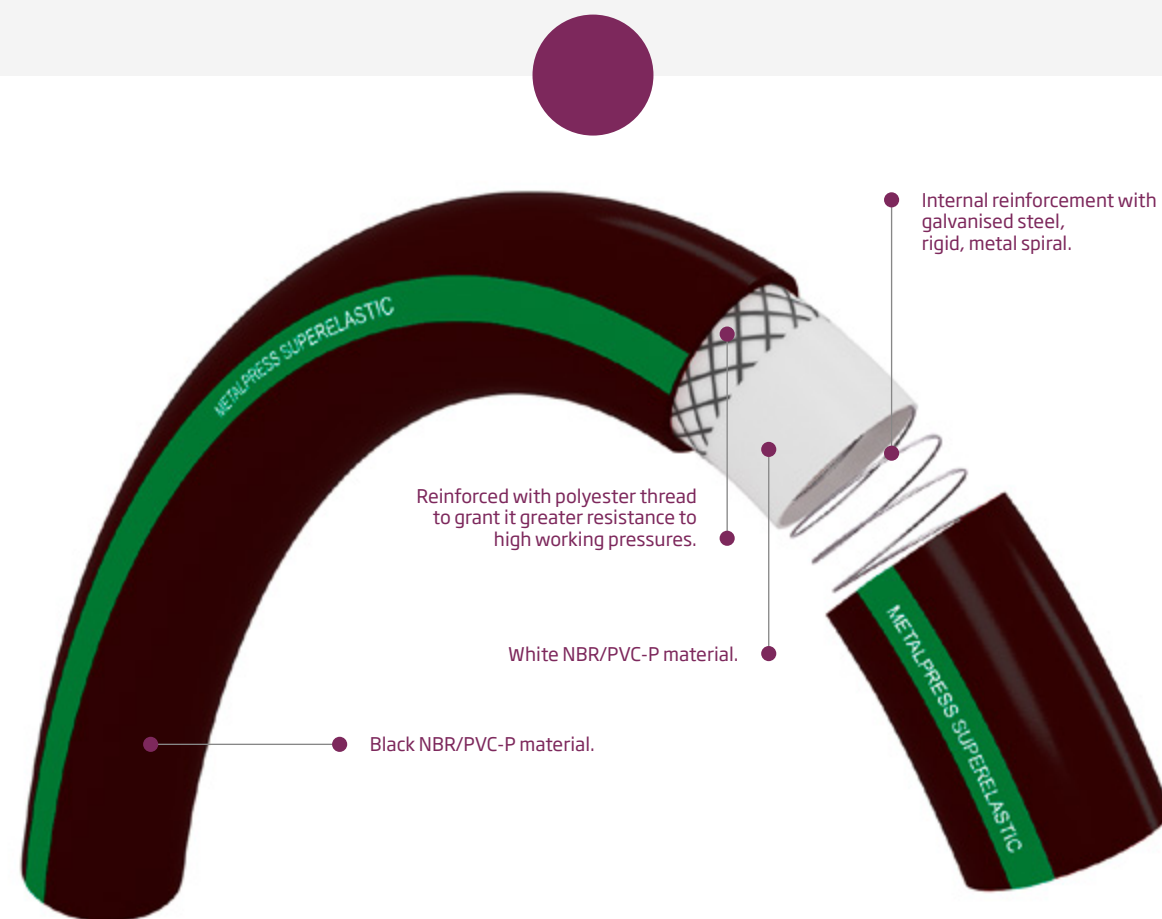
FREE FROM
Cd / Pb / Ba

INT Ø mm	INT Ø in	EXT Ø mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O
20	3/4"	28	543	16	48	55	9
25	1"	35	680	48	70	70	9
32	1" 1/4	42	800	48	80	80	9
35	1" 3/8	47	1100	42	115	115	9
38	1" 1/2	51	1200	42	125	125	9
40	1" 5/8	53	1220	42	130	130	9
45	1" 3/4	58	1400	36	140	140	9
51	2"	64	1600	36	150	150	9
60	2" 1/32	74	2000	36	180	180	9
63	2" 1/2	77	2100	36	190	190	9
76	3"	92	2900	36	210	210	9
80	3" 1/8	97	3150	36	230	230	9
90	3" 1/2	107	3150	30	250	250	9
102	4"	119	4000	30	300	300	9

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about
the minimum purchase amounts assigned to non-standard diameters

Metalpress® Superelastic

NBR/PVC hose with double reinforcement - textile and metal spiral - for suction and transfer of liquids in the agricultural sector and industry.



Features

- For agricultural and industrial use.
- Very flexible, even at low temperatures.
- Good chemical resistance associated with PVC's resistance chart.
- Recommended temperature for use between -30°C and 55°C.



INDUSTRIAL
USE



AGRICULTURAL
USE



RUBBER
FEEL



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba

Applications

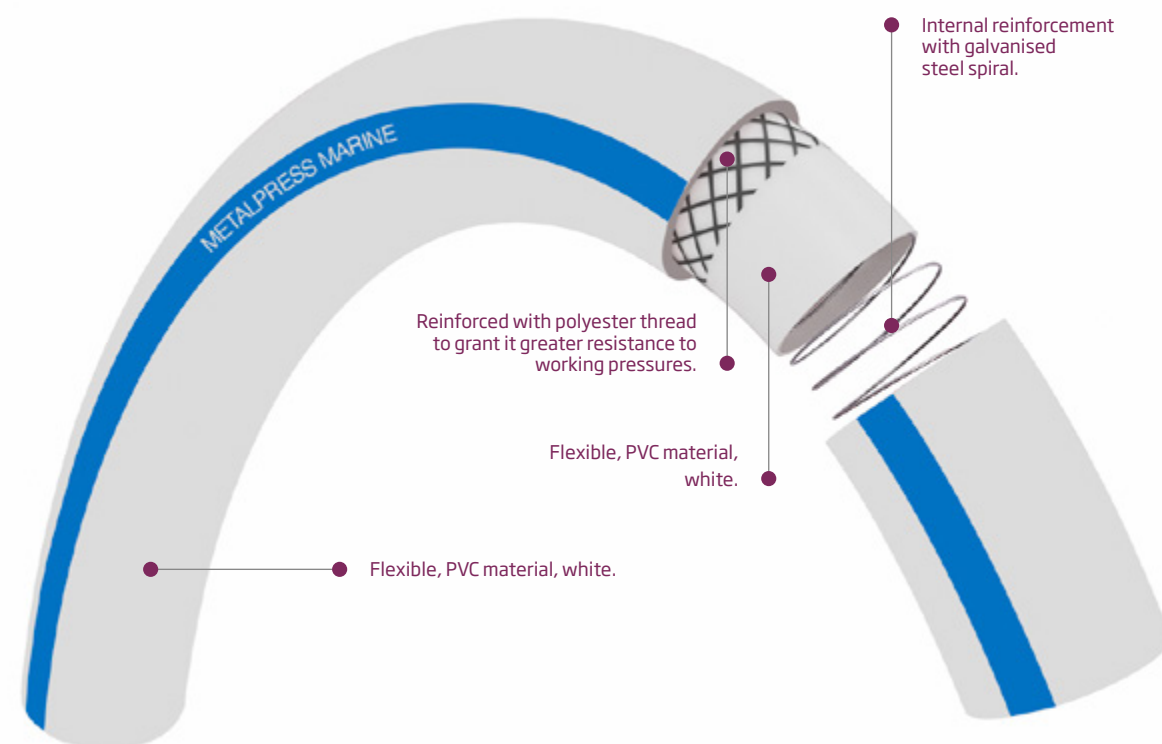
- ▶ Pumping and suction of slurries. Tanker trucks.
- ▶ Transfer of chemical products with a low aggressiveness index.
- ▶ Industrial irrigation.
- ▶ Draining cesspits.
- ▶ Given its highly flexible nature, it is recommended for use in movable tanks.

INT Ø mm	INT Ø in	EXT Ø mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O
20	3/4"	28	543	16	48	55	9
25	1"	35	680	16	48	70	9
32	1" 1/4	42	800	16	48	80	9
35	1" 3/8	47	1100	14	42	115	9
38	1" 1/2	51	1200	14	42	125	9
40	1" 5/8	53	1220	14	42	130	9
45	1" 3/4	58	1400	12	36	140	9
51	2"	64	1600	12	36	150	9
60	2" 1/32	74	2000	12	36	180	9
63	2" 1/2	77	2100	12	36	180	9
76	3"	92	2900	12	36	210	9
80	3" 1/8	97	3150	12	36	230	9
90	3" 1/2	107	3500	10	30	250	9
102	4"	119	4000	10	30	300	9

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters.

Metalpress® Marine

PVC hose with double reinforcement, textile and metal spiral.
Low permeability to odors for the suction and impulsion of liquids from the waste water discharge system in boats.



Features

- Good resistance to pressure and vacuum when suctioning.
- The hose wall is smooth, both inside and outside.
- Good chemical resistance associated with PVC's resistance chart.
- Recommended temperature for use between -25°C and 60°C.



INDUSTRIAL
USE



HIGH QUALITY
CONTROL



AGRICULTURAL
USE



NAUTICAL
USE



WINE
TRANSPORT



FREE FROM
Cd / Pb / Ba

Applications

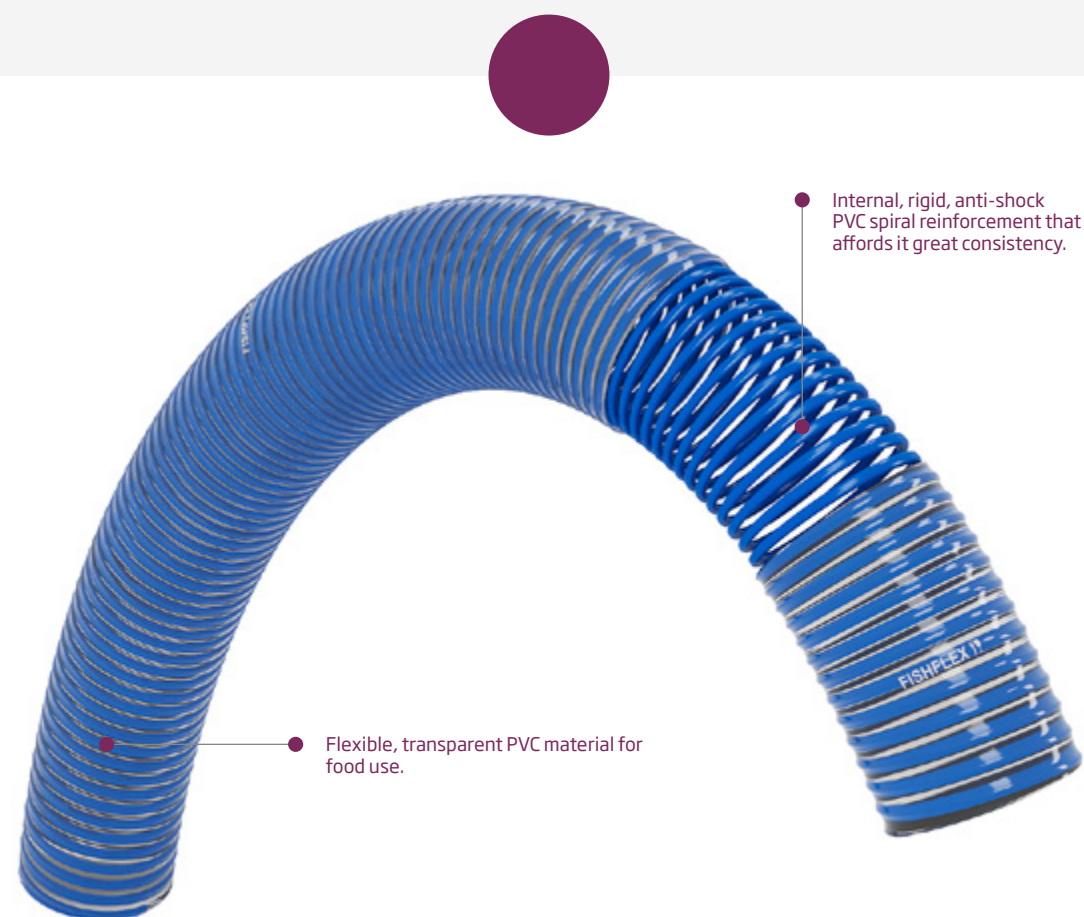
- ▶ Waste water discharge systems.
- ▶ Bilge pumps in boats.
- ▶ Suction of cesspit.
- ▶ Drainage of all types of wells.

INT Ø mm	INT Ø in	EXT Ø mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O
19	¾	28	475	16	48	60	9
25	1"	35	680	16	48	70	9
32	1" ¼	42	800	16	48	80	9
35	1" ⅜	47	1100	14	42	115	9
38	1" ½	51	1200	14	42	125	9
40	1" ⅝	53	1220	14	42	130	9
45	1" ¾	58	1400	12	36	140	9
51	2"	64	1600	12	36	150	9
60	2" ¼	74	2000	12	36	180	9
63	2" ½	77	2100	12	36	190	9
76	3"	92	2900	12	36	210	9
90	3" ½	107	3500	10	30	250	9
102	4"	119	4000	10	30	300	9

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters.

Fishflex®

Hose for pumping and transferring fish through sea water.
Highly resistant to salt, with a rigid, anti-shock spiral to protect the fish being piped.



Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011 (see declaration of conformity).
- Made of flexible, transparent PVC designed especially to withstand sea water.
- The hose wall is smooth on the inside and corrugated on the outside.
- Good chemical resistance associated with PVC's resistance chart.
- Recommended temperature for use between -25°C and 60°C.



FOOD
USE



INDUSTRIAL
USE



AGRICULTURAL
USE



RESISTANT TO SEA
SALT



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba

Applications

- ▶ Transfer of fish via sea water pumping.
- ▶ Transfer of liquid food products that require food simulants A, D2/3 in OM3 conditions in accordance with Regulation EU 10/2011.
- ▶ Piping salt water.

INT Ø mm	INT Ø in	WALL THICKNESS mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O
63	1" 1/2	4.5	1029	6	18	315	9
102	4"	8.5	2900	4	12	500	9
152	6"	11.5	5600	3	9	750	9
203	8"	13.5	9000	2	6	1015	9
254	10"	16	13600	1.5	4.5	1250	9
305	12"	17	19000	1	3	1500	9

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters.



Espirofuel®

Hose with special stability when dealing with hydrocarbons, gasoline and fuel, which makes it perfect for pumping and suctioning petroleum products and industrial oils.

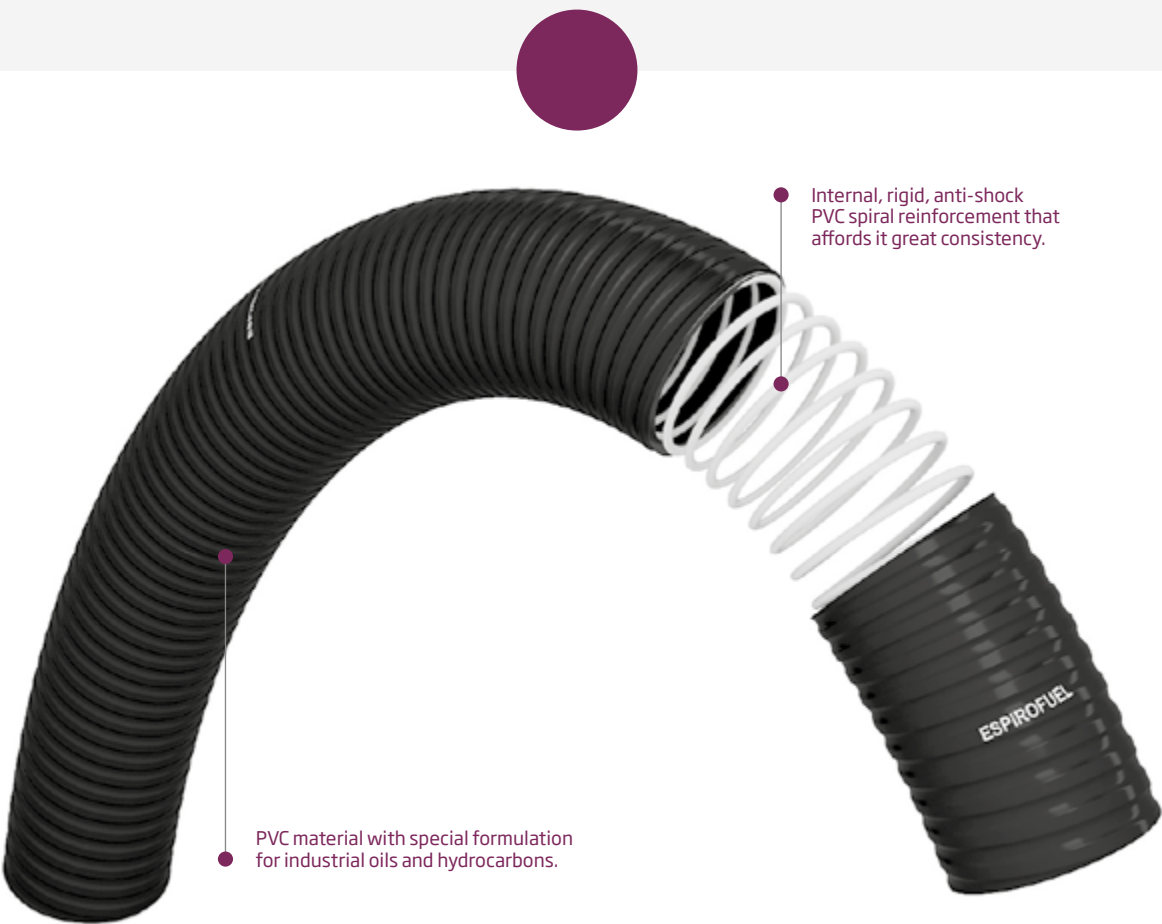
Applications

► Suction and transfer of hydrocarbons and industrial oils.

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ESPIROFUEL®

ESPIROFLEX - MANUFACTURE OF FLEXIBLE HOSES



Features

- For industrial use.
- Special formulation for industrial oils and hydrocarbons, diesel, gasoline, etc.
- The hose wall is smooth on the inside and corrugated on the outside.
- Good chemical resistance associated with PVC's resistance chart.
- Recommended temperature for use between -25°C and 70°C.



INDUSTRIAL
USE



AGRICULTURAL
USE



RESISTANT TO
HYDROCARBONS



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba

117

ESPIROFUEL®

ESPIROFLEX - MANUFACTURE OF FLEXIBLE HOSES

INT Ø mm	INT Ø in	WALL THICKNESS mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O
19	¾"	4.3	412	8	24	140	9
25	1"	4.3	550	7	21	160	9
30	1" 1/8	4.5	680	5	15	192	9
35	1" 3/8	4.5	750	5	15	224	9
40	1" 5/8	4.5	850	5	15	256	9
45	1" 3/4	5.5	1000	5	15	288	9
51	2"	5.5	1200	5	15	320	9
55	2" 1/8	5.5	1400	5	15	350	9
60	2" 1/4	6	1600	5	15	384	9
63	2" 1/2	6	1700	5	15	403	9
70	2" 3/4	6.3	1900	5	15	448	9
76	3"	6.5	2000	5	15	480	9
80	3" 1/8	6.7	2200	4	12	512	9
90	3" 1/2	7	2600	4	12	576	9
102	4"	7	3300	4	12	640	9
110	4" 5/16	7	3610	4	12	700	9

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters.

Espirofuel® Antiestático

Hose with special stability when dealing with hydrocarbons, gasoline and fuel, which makes it perfect for pumping and suctioning petroleum products and industrial oils. An antistatic product suitable for facilities governed by ATEX regulations.

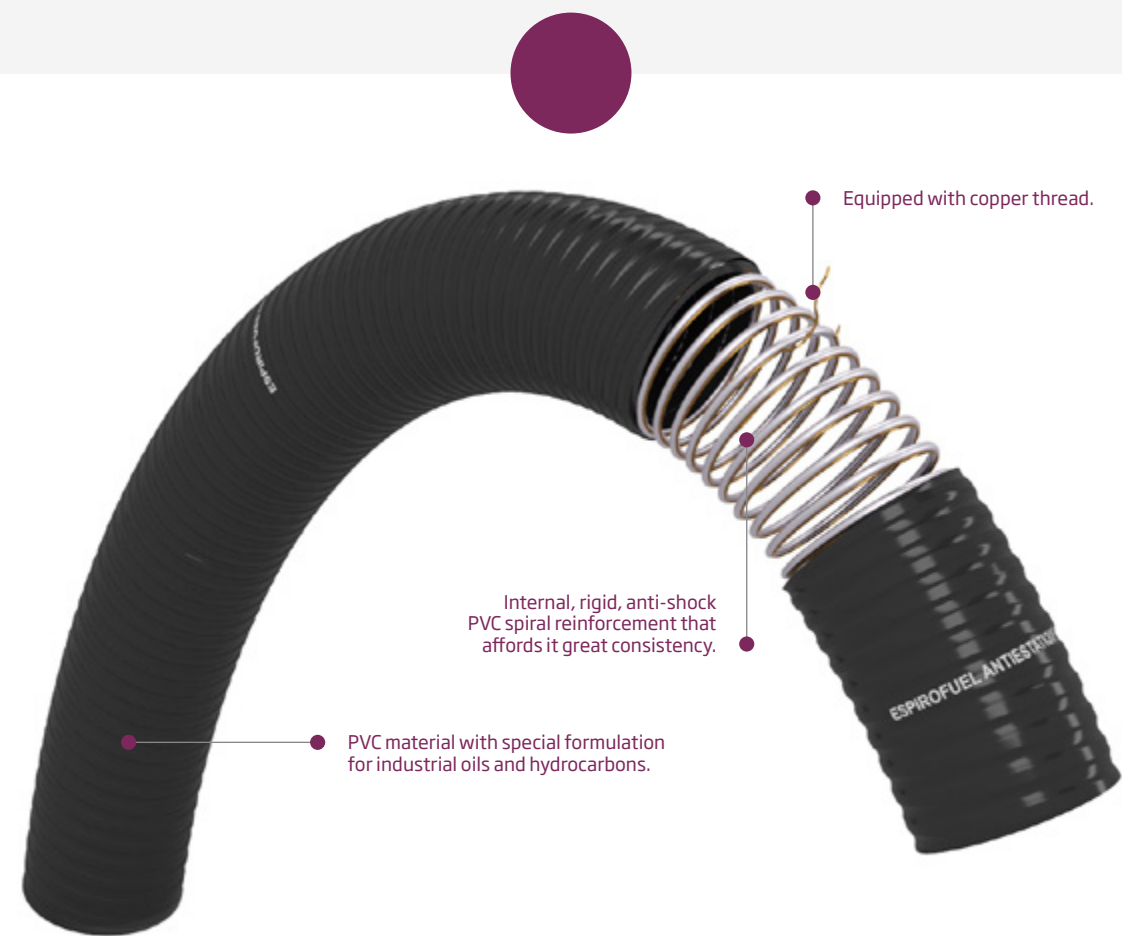
Applications

► Suction and transfer of hydrocarbons and industrial oils.

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ESPIROFUEL® ANTIESTÁTICO

ESPIROFLEX. MANUFACTURE OF FLEXIBLE HOSES



Features

- For industrial use.
- Special formulation for industrial oils and hydrocarbons, diesel, gasoline, etc.
- Equipped with a copper wire that makes it antistatic.
- The hose wall is smooth on the inside and corrugated on the outside.
- Good chemical resistance associated with PVC's resistance chart.
- Recommended temperature for use between -25°C and 70°C.



INDUSTRIAL
USE



AGRICULTURAL
USE



RESISTANT TO
HYDROCARBONS



ANTISTATIC



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba

119

ESPIROFUEL® ANTIESTÁTICO

ESPIROFLEX. MANUFACTURE OF FLEXIBLE HOSES



INT Ø mm	INT Ø in	WALL THICKNESS mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O
25	1"	4.3	550	7	21	160	9
30	1" 1/8	4.5	680	5	15	192	9
35	1" 3/8	4.5	750	5	15	224	9
40	1" 5/8	4.5	850	5	15	256	9
45	1" 3/4	5.5	1000	5	15	288	9
51	2"	5.5	1200	5	15	320	9
55	2" 1/8	5.5	1400	5	15	350	9
60	2" 1/4	6	1600	5	15	384	9
63	2" 1/2	6	1700	5	15	403	9
70	2" 3/4	6.3	1900	5	15	448	9
76	3"	6.5	2000	5	15	480	9
80	3" 1/8	6.7	2200	4	12	512	9
90	3" 1/2	7	2600	4	12	576	9
102	4"	7	3300	4	12	640	9
110	4"	7	3610	4	12	700	9

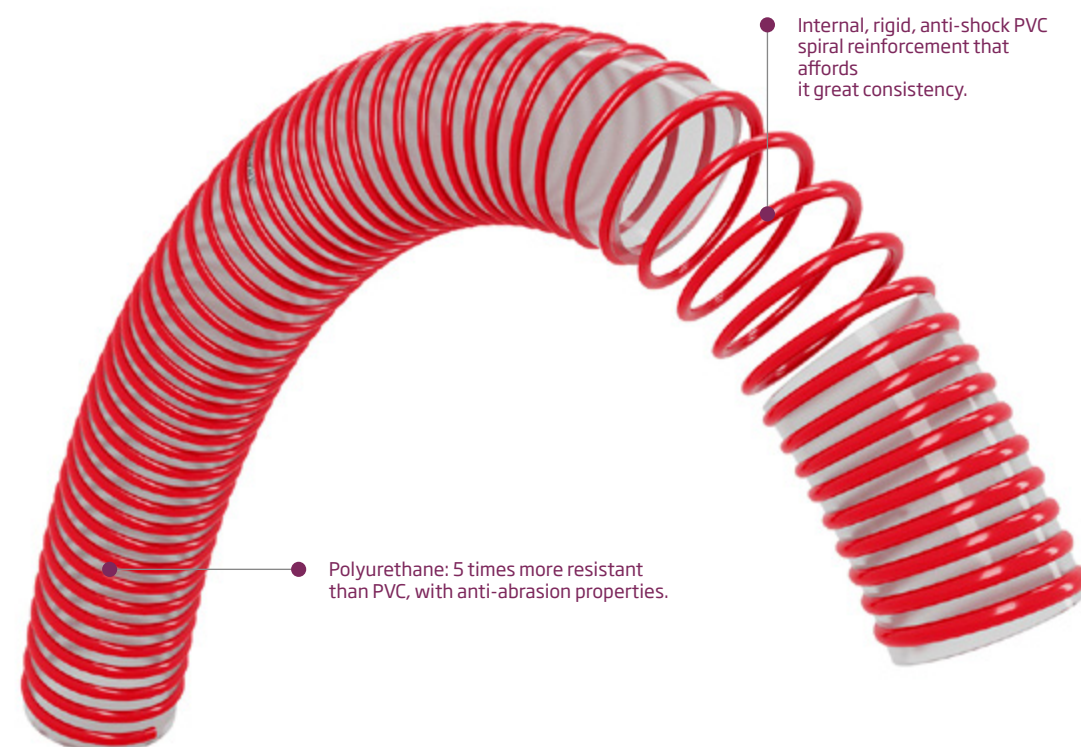
Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters.

Espiroliquid® PU

Pumping and suction polyurethane hose with a PVC spiral for highly abrasive liquids (rebar, mud, sand, etc.). Five times more resistant to abrasion than PVC.

Applications

► Suction of abrasive material.



Internal, rigid, anti-shock PVC spiral reinforcement that affords it great consistency.

Polyurethane: 5 times more resistant than PVC, with anti-abrasion properties.

Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011 (see declaration of conformity).
- Smooth internal surface to prevent the formation of sediments on the walls. Corrugated external surface.
- Good chemical resistance associated with PU's resistance chart and very good resistance to hydrolysis.
- Full flexibility (bending radius = internal diameter), which grants this hose great mechanical possibilities. Extremely light.
- Recommended temperature for use between -20°C and 80°C.



FOOD USE



LIGHT



MADE FROM POLYURETHANE



ANTI-ABRASION



SMOOTH INTERIOR



SUCTION



FREE FROM Cd / Pb / Ba



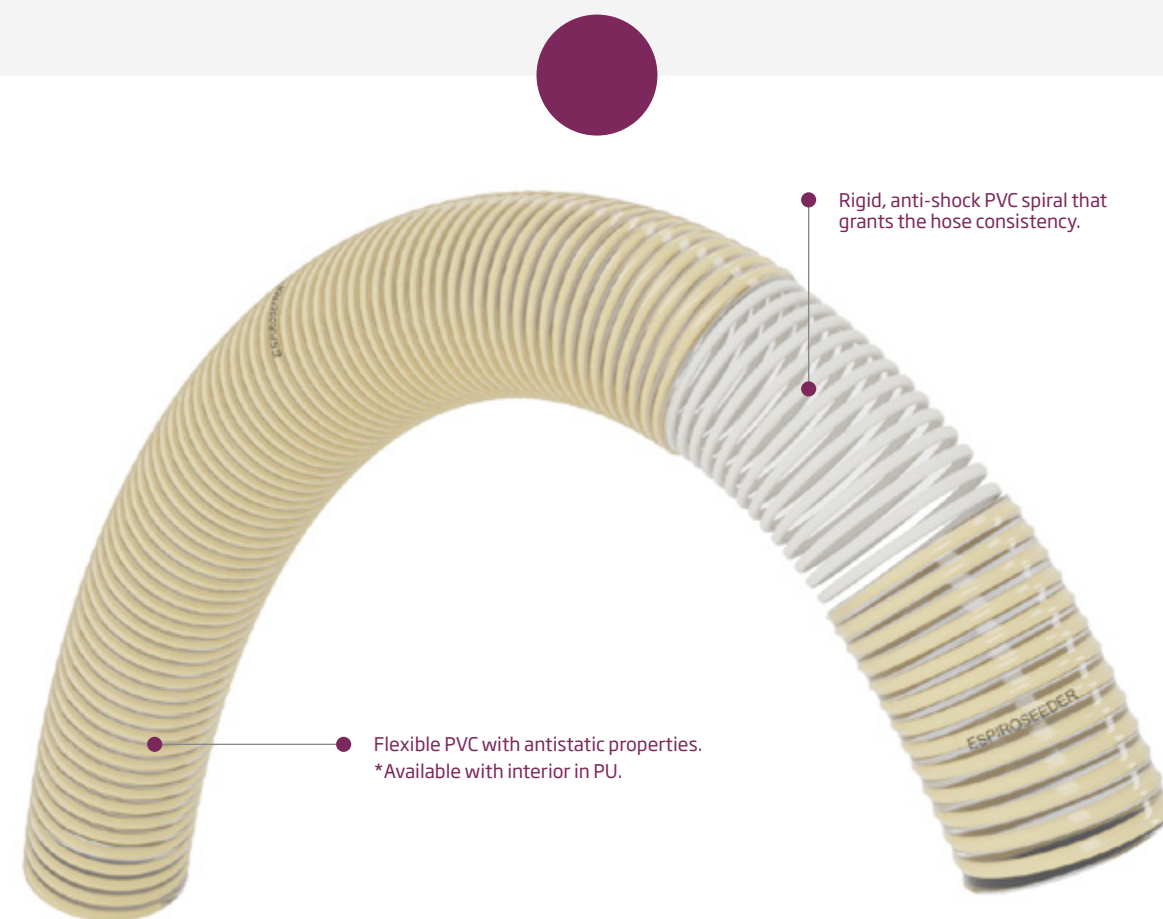
TEMPERATURES -20°C TO 80°C

INT Ø mm	INT Ø in	EXT Ø mm	FLEXIBLE THICKNESS mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	VACUUM m H ₂ O
20	3/4"	27	0.9	194	5	15	9
22	7/8"	29	0.9	200	5	15	9
25	1"	31	0.9	208	5	15	9
30	1" 1/8	38	1.0	320	5	15	9
35	1" 3/8	41	1.0	364	4.5	13.5	9
40	1" 5/8	48	1.0	408	4	12	9
45	1" 3/4	54	1.0	486	3.5	10.5	9
51	2"	59	1.0	582	3	9	9
55	2" 1/8	64	1.1	672	3	9	9
60	2" 1/32	70	1.1	776	3	9	9
63	2" 1/2	73	1.1	884	3	9	9
70	2" 3/4	81	1.1	970	2.5	7.5	9
76	3"	86	1.1	1068	2.5	7.5	9
80	3" 1/8	92	1.1	1164	2.5	7.5	9
90	3" 1/2	102	1.2	1358	2	6	9
102	4"	113	1.2	1552	2	6	9
110	4" 5/16	123	1.2	1920	2	6	9
127	5"	143	1.2	2548	1.5	4.5	9
140	5" 1/2	157	1.5	3150	1	3	9
152	6"	170	1.5	3440	1	3	9

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Espiroseeder®

Flexible PVC hose, reinforced with a rigid, anti-shock PVC spiral equipped with antistatic material.



Rigid, anti-shock PVC spiral that grants the hose consistency.

Flexible PVC with antistatic properties.
*Available with interior in PU.

Features

- For industrial and agricultural use.
- Flexible, translucent PVC with a special formulation of low, superficial electrical resistivity, which grants the hose antistatic properties. ($10^9 < K.I. < 10^{11} \Omega.m$).
- The hose wall surface is smooth, both inside and outside.
- Good chemical resistance associated with PVC's resistance chart.
- Recommended temperature for use between -20°C and 60°C.



INDUSTRIAL
USE



AGRICULTURAL
USE



SMOOTH
INTERIOR



PVC
SPIRAL



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba



ANTISTATIC

Applications

- ▶ Pumping of seeds in sowing machines.
- ▶ Pumping and suction of liquids in applications where the hose must have antistatic properties.
- ▶ Available with interior in PU.

INT Ø mm	INT Ø in	WALL THICKNESS mm	WEIGHT g/m	OPERATING PRESSURE bar	BURSTING PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O
30	36	3.0	385	4	12	60	9
32	38	3.0	400	4	12	60	9
35	42	3.5	525	4	12	70	9
40	47	3.5	600	4	12	70	9
45	53	4.0	775	4	12	70	9

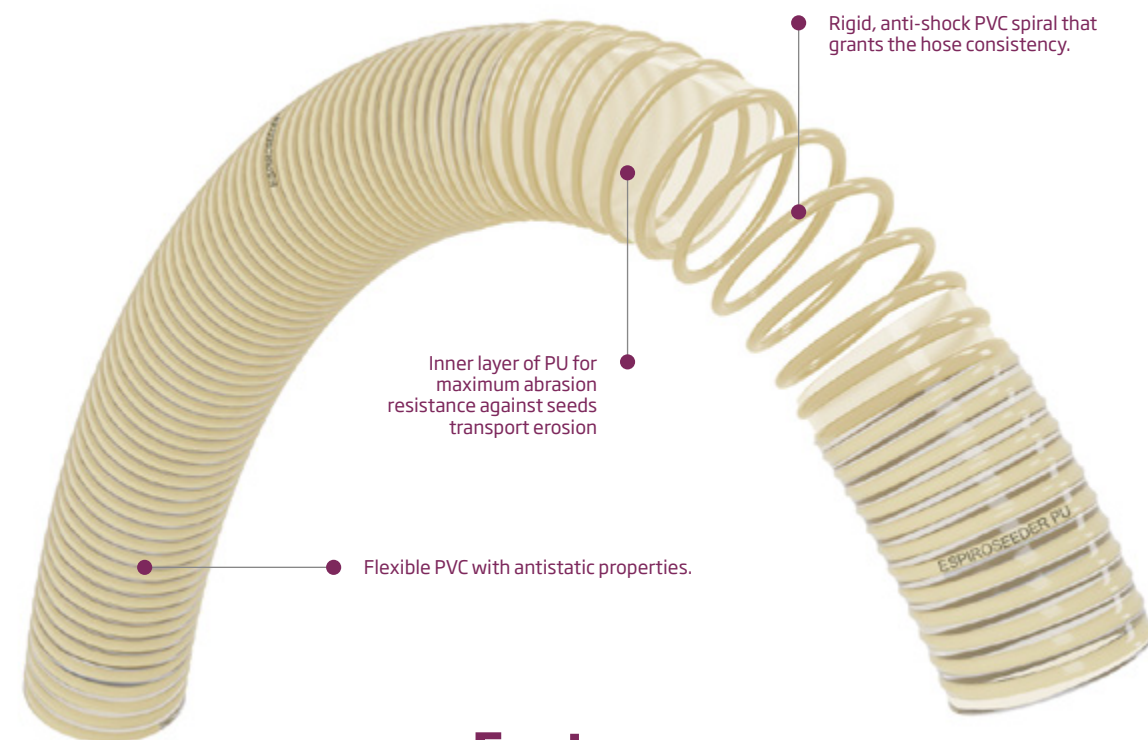
Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Espiroseeder® PU

Flexible PVC hose, reinforced with a rigid, anti-shock PVC spiral equipped with antistatic material and inner layer of PU for maximum abrasion resistance against seeds transport erosion.

Applications

- ▶ Pumping of seeds in sowing machines.
- ▶ Pumping and suction of liquids in applications where the hose must have antistatic properties.



Features

- For industrial and agricultural use.
- Flexible, translucent PVC with a special formulation of low, superficial electrical resistivity, which grants the hose antistatic properties. ($10^9 < K.I. < 10^{11} \Omega.m$).
- Interior PU liner.
- The hose wall surface is smooth, both inside and outside.
- Good chemical resistance associated with PVC's resistance chart.
- Recommended temperature for use between -20°C and 60°C.



INDUSTRIAL
USE



AGRICULTURAL
USE



SMOOTH
INTERIOR



PVC
SPIRAL



HIGH QUALITY
CONTROL



MADE FROM
POLYURETHANE



FREE FROM
Cd / Pb / Ba



ANTISTATIC

INT Ø mm	INT Ø in	WALL THICKNESS mm	WEIGHT g/m	OPERATING PRESSURE bar	BURSTING PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O
30	36	3.0	385	4	12	60	9
32	38	3.0	400	4	12	60	9
35	42	3.5	525	4	12	70	9
40	47	3.5	600	4	12	70	9
45	53	4.0	775	4	12	70	9

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

130 Poliuretano Flex® 0.4 ET	132 Poliuretano Flex® BS 0.4 EST	134 Poliuretano Flex® BS 0.4 EST	136 Poliuretano Flex® M 0.7 ET
			
138 Poliuretano Flex® RD 0.7 EST	140 Poliuretano Flex® H 1.1 ET	142 Poliuretano Flex® H 1.1 EST	144 Poliuretano Flex® HD 1.6 ET
			
146 Poliuretano Flex® HD 1.6 EST	148 Poliuretano Flex® Rock 2.0 EST	150 Poliuretano Flex® Rock 2.5 EST	152 Espiro® PU ET
			
154 Espiro® PU EST	156 Espiro® PU Antiestático	158 Espiroair®	160 Espiroair® Antiestático
			
162 Espiroair® Oil	164 Espiroair® UL94 VO	166 Vacumflex®	168 Extraflex®
			

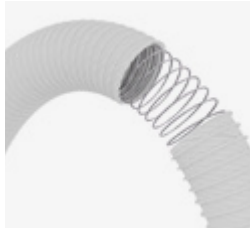
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Consult us for other diameters, colours and features.



170
Espiroreno®



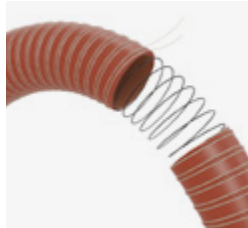
172
Superflex Air®



174
Thermoflex®



176
Espirosilicone®



178
EspiroEVA®



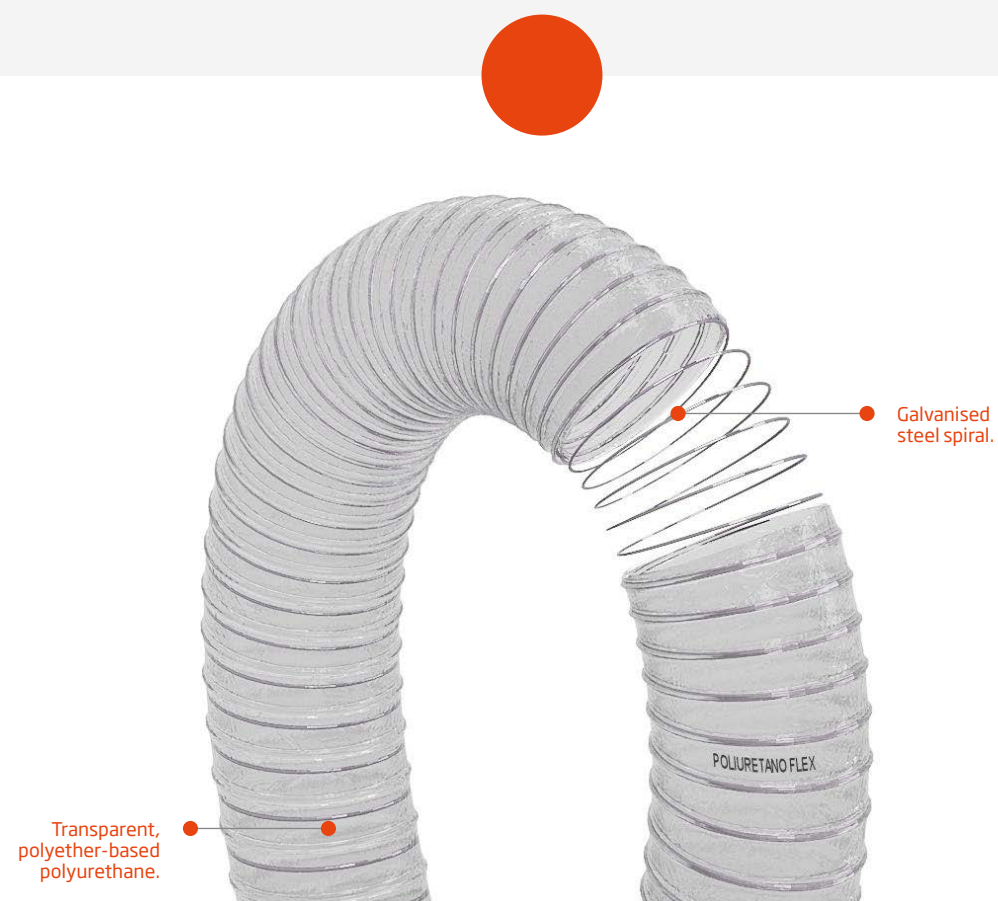
Poliuretano Flex®

0.4 ET

Flexible, transparent, polyether-based polyurethane hose and an internal, antistatic, galvanised steel spiral that is suitable for facilities governed by ATEX regulations for the suction of abrasion products.

Applications

- ▶ Suction of abrasive content, gases from oils, smoke, sawdust, vapours, etc. in addition to food products that require food simulant E in OM2 conditions in accordance with Regulation EU 10/2011.



Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011 (see declaration of conformity).
- Highly flexible and resistant to abrasion, humidity and microorganisms.
- Good chemical resistance associated with PU's resistance chart.
- Withstands temperatures between -40°C and 90°C.
- Option of manufacture with polyester base subject to request.
- The product is compacted when supplied.



INDUSTRIAL
USE



FOOD
USE



SUCTION



MADE FROM
POLYURETHANE



ANTI-ABRASION



ANTISTATIC

INT Ø mm	INT Ø in	FLEXIBLE THICKNESS mm	WEIGHT g/m	BENDING RADIUS mm	VACUUM m H ₂ O
40	1" 5/8	0,4	200	20	5.0
45	1" 3/4	0,4	225	22	5.0
51	2"	0,4	250	25	4.0
60	2" 1/4	0,4	300	30	3.0
63	2" 1/2	0,4	315	31	3.0
70	2" 3/4	0,4	335	35	2.0
76	3"	0,4	340	38	1.5
80	3" 1/8	0,4	360	40	1.5
90	3" 1/2	0,4	380	45	1.5
102	4"	0,4	450	50	1.5
110	4" 5/16	0,4	520	55	1.5
120	4" 3/4	0,4	560	60	1.5
127	5"	0,4	590	62	1.5
130	5" 1/4	0,4	600	65	1.5
140	5" 1/2	0,4	650	70	1.0
152	6"	0,4	820	75	1.0
160	6" 1/4	0,4	880	80	1.0
180	7"	0,4	990	90	1.0
203	8"	0,4	1100	100	1.0
254	10"	0,4	1300	125	1.0
305	12"	0,4	1400	150	0.5
356	14"	0,4	1980	175	0.5
406	16"	0,4	2100	200	0.5
500	20"	0,4	2500	250	0.4
550	22"	0,4	2650	275	0.4
600	24"	0,4	2900	300	0.3

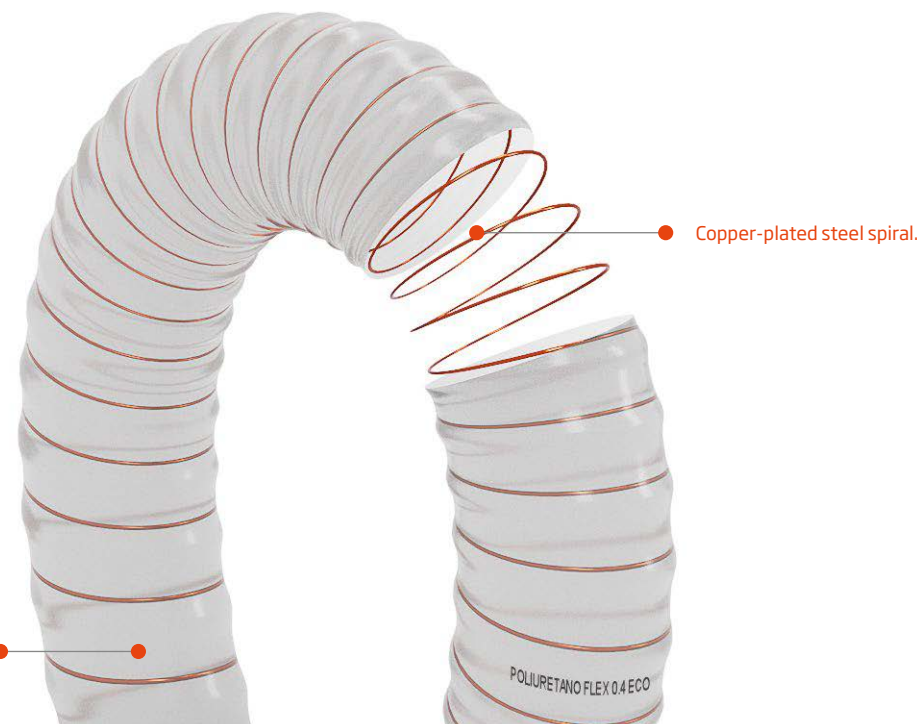
Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Poliuretano Flex® BS 0.4 ET

Flexible, transparent, polyether-based polyurethane hose and an internal, antistatic, copper-plated steel spiral that is suitable for facilities governed by ATEX regulations for the suction of abrasion products.

Applications

- ▶ Suction of abrasive content, gases from oils, smoke, sawdust, vapours, etc.
- ▶ Ventilation and supply of air with low-abrasion loads.



Features

- For industrial use.
- Highly flexible and resistant to abrasion, humidity and microorganisms.
- Good chemical resistance associated with PU's resistance chart.
- Withstands temperatures between -40°C and 90°C.
- The product is compacted when supplied.



INDUSTRIAL
USE



ANTISTATIC



SUCTION



MADE FROM
POLYURETHANE



ANTI-ABRASION



COPPER-PLATED
SPIRAL

INT Ø mm	INT Ø in	FLEXIBLE THICKNESS mm	WEIGHT g/m	BENDING RADIUS mm	VACUUM m H ₂ O
40	1" 5/8	0.4	230	40	5
45	1" 3/4	0.4	250	45	5
51	2"	0.4	280	50	1.5
60	2" 1/32	0.4	340	60	4
63	2" 1/2	0.4	360	63	3
70	3"	0.4	390	70	3
76	3" 1/8	0.4	410	76	2
80	3" 1/2	0.4	440	80	2
90	2"	0.4	490	90	1.5
102	4"	0.4	510	100	1.5
110	4" 5/16	0.4	560	110	1.5
120	4" 3/4	0.4	610	120	1.5
127	5"	0.4	630	125	1.5
130	5" 1/4	0.4	660	130	1.5
140	5" 1/2	0.4	760	140	1.5
152	6"	0.4	790	152	1.0
160	6" 1/4	0.4	880	160	1.0
170	6" 3/4	0.4	915	170	1.0
180	7"	0.4	950	180	1.0
203	8"	0.4	1030	200	1.0
210	8" 1/4	0.4	1100	210	1.0
220	8" 3/4	0.4	1175	220	1.0
225	9"	0.4	1200	225	1.0
254	10"	0.4	1475	254	1.0
305	12"	0.4	1980	305	0.5
356	14"	0.4	2000	350	0.5
406	16"	0.4	2070	400	0.5
450	18"	0.4	2300	450	0.5
500	20"	0.4	2500	500	0.4
550	22"	0.6	2650	550	0.4
600	24"	0.6	3100	600	0.5

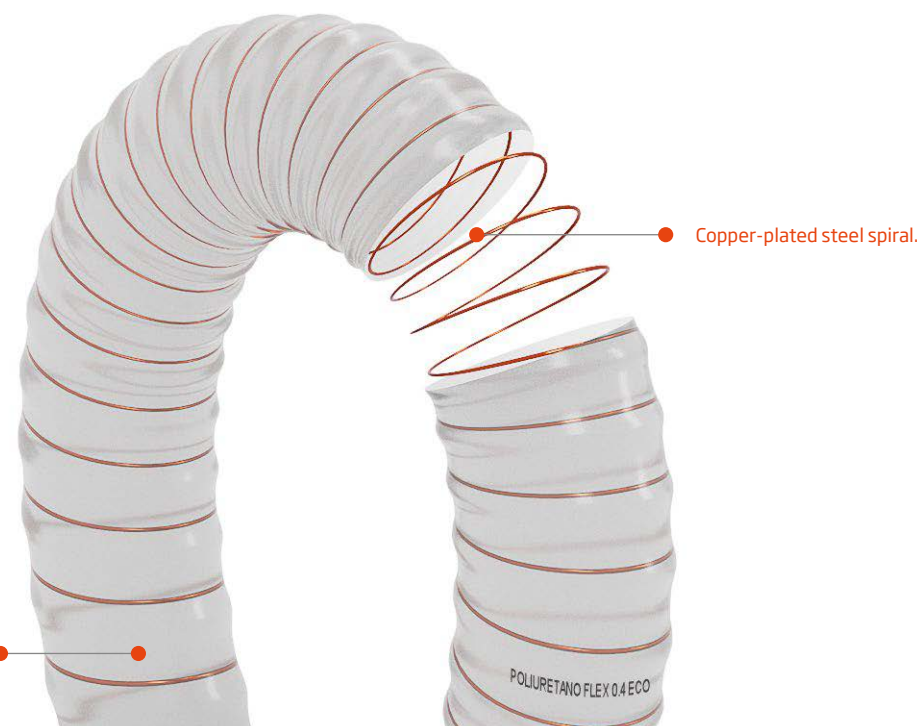
Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Poliuretano Flex® BS 0.4 EST

Flexible, transparent, polyether-based polyurethane hose and an internal, antistatic, copper-plated steel spiral that is suitable for facilities governed by ATEX regulations for the suction of abrasion products.

Applications

- ▶ Suction of abrasive content, gases from oils, smoke, sawdust, vapours, etc.
- ▶ Ventilation and supply of air with low-abrasion loads.



Features

- For industrial use.
- Highly flexible and resistant to abrasion, humidity and microorganisms.
- Good chemical resistance associated with PU's resistance chart.
- Withstands temperatures between -40°C and 90°C.
- The product is compacted when supplied.



INDUSTRIAL
USE



ANTISTATIC



SUCTION



MADE FROM
POLYURETHANE



ANTI-ABRASION



COPPER-PLATED
SPIRAL

INT Ø mm	INT Ø in	FLEXIBLE THICKNESS mm	WEIGHT g/m	BENDING RADIUS mm	VACUUM m H ₂ O
40	1" 5/8	0.4	230	40	5
45	1" 3/4	0.4	250	45	5
51	2"	0.4	280	50	1.5
60	2" 1/32	0.4	340	60	4
63	2" 1/2	0.4	360	63	3
70	3"	0.4	390	70	3
76	3" 1/8	0.4	410	76	2
80	3" 1/2	0.4	440	80	2
90	2"	0.4	490	90	1.5
102	4"	0.4	510	100	1.5
110	4" 5/16	0.4	560	110	1.5
120	4" 3/4	0.4	610	120	1.5
127	5"	0.4	630	125	1.5
130	5" 1/4	0.4	660	130	1.5
140	5" 1/2	0.4	760	140	1.5
152	6"	0.4	790	152	1.0
160	6" 1/4	0.4	880	160	1.0
170	6" 3/4	0.4	915	170	1.0
180	7"	0.4	950	180	1.0
203	8"	0.4	1030	200	1.0
210	8" 1/4	0.4	1100	210	1.0
220	8" 3/4	0.4	1175	220	1.0
225	9"	0.4	1200	225	1.0
254	10"	0.4	1475	254	1.0
305	12"	0.4	1980	305	0.5
356	14"	0.4	2000	350	0.5
406	16"	0.4	2070	400	0.5
450	18"	0.4	2300	450	0.5
500	20"	0.4	2500	500	0.4
550	22"	0.6	2650	550	0.4
600	24"	0.6	3100	600	0.5

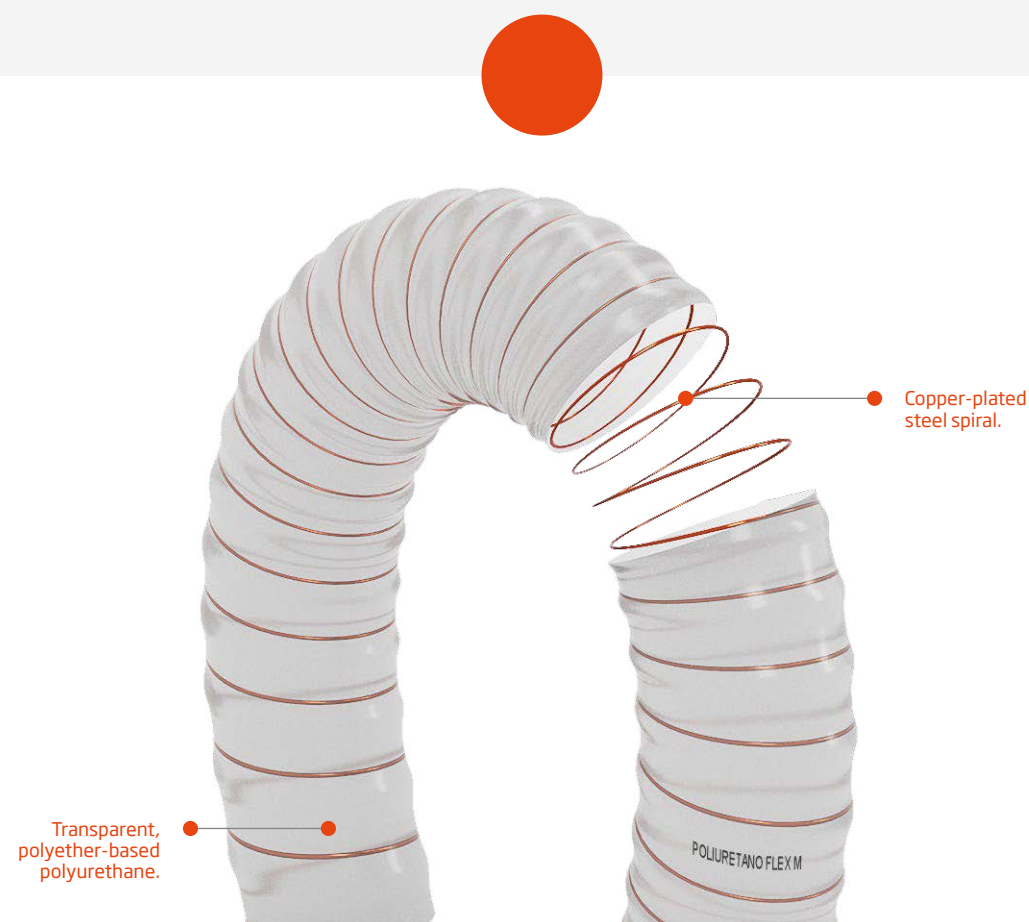
Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
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Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Poliuretano Flex® M 0.7 ET

Flexible, transparent, polyether-based polyurethane hose and an internal, antistatic, copper-plated steel spiral that is suitable for facilities governed by ATEX regulations for the suction of abrasion products.

Applications

- ▶ Suction of abrasive content, gases from oils, smoke, sawdust, vapours, etc. in addition to food products that require food simulant E in OM2 conditions in accordance with Regulation EU 10/2011.



Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011 (see declaration of conformity).
- Highly resistant to abrasion, humidity and microorganisms.
- Good chemical resistance associated with PU's resistance chart.
- Withstands temperatures between -40°C and 90°C.
- Option of manufacture with polyester base subject to request.
- The product is compacted when supplied.



INDUSTRIAL
USE



FOOD
USE



COPPER-PLATED
SPIRAL



SUCTION



MADE FROM
POLYURETHANE



ANTI-ABRASION



ANTISTATIC

INT Ø mm	INT Ø in	FLEXIBLE THICKNESS mm	WEIGHT g/m	BENDING RADIUS mm	VACUUM m H ₂ O
40	1" 5/8	0,7	265	30	6.0
45	1" 3/4	0,7	295	35	5.5
51	2"	0,7	325	40	5.0
60	2" 1/4	0,7	395	45	4.0
63	2" 1/2	0,7	410	50	4.0
70	2" 3/4	0,7	420	60	3.0
76	3"	0,7	440	60	3.0
80	3" 1/8	0,7	470	65	2.5
90	3" 1/2	0,7	495	75	2.5
102	4"	0,7	515	85	2.5
110	4" 5/16	0,7	685	90	2.5
120	4" 3/4	0,7	720	95	2.5
127	5"	0,7	750	100	2.5
130	5" 1/4	0,7	780	105	2.5
135	5" 1/4	0,7	845	110	2.5
140	5" 1/2	0,7	860	115	2.0
152	6"	0,7	990	120	2.0
160	6" 1/4	0,7	1060	130	2.0
170	6" 3/4	0,7	1200	135	2.0
180	7"	0,7	1150	150	2.0
203	8"	0,7	1300	165	1.5
220	8" 3/4	0,7	1400	170	1.5
225	9"	0,7	1460	190	1.0
254	10"	0,7	1690	230	1.0
305	12"	0,7	2075	240	1.0
320	12" 3/4	0,7	2280	270	0.80
356	14"	0,7	2610	305	0.70
406	16"	0,7	3100	340	0.70
500	20"	0,7	3250	375	0.70
550	22"	0,7	3600	415	0.5
600	24"	0,7	4170	450	0.5

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Poliuretano Flex® RD 0.7 EST

Flexible, transparent, polyester-based polyurethane hose and an internal, antistatic, copper-plated steel spiral that is suitable for facilities governed by ATEX regulations for the suction of abrasion products.

Supplied
in rolls.

Copper-plated
steel spiral.

Transparent,
polyester-based
polyurethane.

Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011 (see declaration of conformity).
- Highly resistant to abrasion, vapours from chemical products, and fats and oils in their content.
- Good chemical resistance associated with PU's resistance chart.
- Withstands temperatures between -40°C and 90°C.
- Product supplied in rolls.



INDUSTRIAL
USE



FOOD
USE



COPPER-PLATED
SPIRAL



SUCTION



MADE FROM
POLYURETHANE



ANTI-ABRASION



ANTISTATIC

Applications

- ▶ Ventilation and suction of very high-abrasion materials.
- ▶ Suction of abrasive content, gases from oils, smoke, sawdust, vapours, etc. in addition to food products that require food simulant E in OM2 conditions in accordance with Regulation EU 10/2011.

INT Ø mm	INT Ø in	FLEXIBLE THICKNESS mm	WEIGHT g/m	BENDING RADIUS mm	VACUUM m H ₂ O
40	1" 5/8	0.7	265	40	6.0
45	1" 3/4	0.7	295	45	5.5
51	2"	0.7	325	50	5.0
60	2" 1/4	0.7	395	60	4.0
63	2" 1/2	0.7	410	65	4.0
70	2" 3/4	0.7	420	70	3.5
76	3"	0.7	440	75	3.0
80	3" 1/8	0.7	470	80	3.0
90	3" 1/2	0.7	495	90	2.5
102	4"	0.7	515	100	2.5
110	4" 5/16	0.7	685	110	2.5
120	4" 3/4	0.7	720	120	2.5
127	5"	0.7	750	125	2.5
130	5" 1/4	0.7	780	130	2.5
135	5" 1/4	0.7	845	135	2.5
140	5" 1/2	0.7	860	140	2.5
152	6"	0.7	990	150	2.0
160	6" 1/4	0.7	1060	160	2.0
170	6" 3/4	0.7	1200	170	2.0
180	7"	0.7	1150	180	2.0
203	8"	0.7	1300	200	2.0
220	8" 3/4	0.7	1400	220	1.5
254	10"	0.7	1690	250	1.0
305	12"	0.7	2075	300	1.0
356	14"	0.7	2610	350	0.8
406	16"	0.7	3100	400	0.7
500	20"	0.7	3250	500	0.6
550	22"	0.7	3600	550	0.6
600	24"	0.7	4170	600	0.5

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Poliuretano Flex®

H1.1 ET

Flexible, transparent, polyether-based polyurethane hose and an internal, antistatic, copper-plated steel spiral that is suitable for facilities governed by ATEX regulations for the suction of abrasion products.

Applications

- ▶ Suction of highly abrasive food material that requires the food simulant E in OM2 conditions in accordance with Regulation EU 10/2011.

Supplied in rolls.

Copper-plated steel spiral.

Transparent, polyether-based polyurethane.

Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/201 (see declaration of conformity).
- Highly resistant to abrasion, humidity and microorganisms.
- Good chemical resistance associated with PU's resistance chart.
- Withstands temperatures between -40°C and 90°C.
- Option of manufacture with polyester base subject to request.
- Product supplied in rolls.



INDUSTRIAL USE



FOOD USE



COPPER-PLATED SPIRAL



SUCTION



MADE FROM POLYURETHANE



ANTI-ABRASION



ANTISTATIC

INT Ø mm	INT Ø in	FLEXIBLE THICKNESS mm	WEIGHT g/m	BENDING RADIUS mm	VACUUM m H ₂ O
40	1" 5/8	1,1	460	45	6.5
45	1" 3/4	1,1	510	50	6.5
51	2"	1,1	560	55	6.0
60	2" 1/4	1,1	660	65	6.0
70	2" 3/4	1,1	775	70	6.0
76	3"	1,1	825	80	6.0
80	3" 1/8	1,1	875	85	5.5
90	3" 1/2	1,1	980	90	5.5
102	4"	1,1	1000	100	5.5
110	4" 5/16	1,1	1100	115	5.0
120	4" 3/4	1,1	1275	120	5.0
127	5"	1,1	1350	130	4.5
130	5" 1/4	1,1	1380	140	4.5
140	5" 1/2	1,1	1450	145	4.5
152	6"	1,1	1550	155	4.5
160	6" 1/4	1,1	1625	170	4.0
170	7"	1,1	1740	175	4.0
180	7"	1,1	1850	190	3.5
203	8"	1,1	2100	200	3.5
225	9"	1,1	2300	225	3.0
254	10"	1,1	2600	250	3.0
280	11"	1,1	2850	280	3.0
305	12"	1,1	3100	335	2.5
356	14"	1,1	3200	390	2.5
406	16"	1,1	3600	450	2.5
450	18"	1,1	3750	500	2.0
500	20"	1,1	5000	550	2.0
550	22"	1,1	5300	605	1.5
600	24"	1,1	5600	660	1.5

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Poliuretano Flex® H1.1 EST

Flexible, transparent, polyether-based polyurethane hose and an internal, antistatic, copper-plated steel spiral that is suitable for facilities governed by ATEX regulations for the suction of abrasion products.

Applications

- ▶ Suction of highly abrasive food material that requires the food simulant E in OM2 conditions in accordance with Regulation EU 10/2011.

Supplied
in rolls.

Copper-plated steel spiral.

Transparent,
polyether-based
polyurethane.

Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/201 (see declaration of conformity).
- Highly resistant to abrasion, humidity and microorganisms.
- Good chemical resistance associated with PU's resistance chart.
- Withstands temperatures between -40°C and 90°C.
- Option of manufacture with polyester base subject to request.
- Product supplied in rolls.



INDUSTRIAL
USE



FOOD
USE



COPPER-PLATED
SPIRAL



SUCTION



MADE FROM
POLYURETHANE



ANTI-ABRASION



ANTISTATIC

INT Ø mm	INT Ø in	FLEXIBLE THICKNESS mm	WEIGHT g/m	BENDING RADIUS mm	VACUUM m H ₂ O
40	1" 5/8	1,1	460	45	6.5
45	1" 3/4	1,1	510	50	6.5
51	2"	1,1	560	55	6.0
60	2" 1/4	1,1	660	65	6.0
70	2" 3/4	1,1	775	70	6.0
76	3"	1,1	825	80	6.0
80	3" 1/8	1,1	875	85	5.5
90	3" 1/2	1,1	980	90	5.5
102	4"	1,1	1000	100	5.5
110	4" 5/16	1,1	1100	115	5.0
120	4" 3/4	1,1	1275	120	5.0
127	5"	1,1	1350	130	4.5
130	5" 1/4	1,1	1380	140	4.5
140	5" 1/2	1,1	1450	145	4.5
152	6"	1,1	1550	155	4.5
160	6" 1/4	1,1	1625	170	4.0
170	7"	1,1	1740	175	4.0
180	7"	1,1	1850	190	3.5
203	8"	1,1	2100	200	3.5
225	9"	1,1	2300	225	3.0
254	10"	1,1	2600	250	3.0
280	11"	1,1	2850	280	3.0
305	12"	1,1	3100	335	2.5
356	14"	1,1	3200	390	2.5
406	16"	1,1	3600	450	2.5
450	18"	1,1	3750	500	2.0
500	20"	1,1	5000	550	2.0
550	22"	1,1	5300	605	1.5
600	24"	1,1	5600	660	1.5

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Poliuretano Flex® HD 1.6 ET

Flexible, transparent, polyether-based polyurethane hose and an internal, antistatic, copper-plated steel spiral that is suitable for facilities governed by ATEX regulations for the suction of abrasion products.

Applications

- ▶ Suction of extremely abrasive content (iron, rebar, glass). Suction cleaning machinery in forests, roads, etc.
- ▶ Suction of highly abrasive food material that requires the food simulant E in OM2 conditions in accordance with Regulation EU 10/2011.

Supplied in rolls.

Copper-plated steel spiral.

Transparent, polyether-based polyurethane.

Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/201 (see declaration of conformity).
- Highly resistant to abrasion, humidity and microorganisms.
- Good chemical resistance associated with PU's resistance chart.
- Withstands temperatures between -40°C and 90°C.
- Option of manufacture with polyester base subject to request.
- Product supplied in rolls.



INDUSTRIAL USE



FOOD USE



COPPER-PLATED SPIRAL



SUCTION



MADE FROM POLYURETHANE



ANTI-ABRASION



ANTISTATIC

INT Ø mm	INT Ø in	FLEXIBLE THICKNESS mm	WEIGHT g/m	BENDING RADIUS mm	VACUUM m H ₂ O
32	1" 1/4	1,6	465	40	8.0
35	1" 1/4	1,6	500	45	8.0
38	1" 1/2	1,6	535	50	8.0
40	1" 5/8	1,6	560	55	7.5
45	1" 3/4	1,6	620	60	7.5
51	2"	1,6	695	65	7.5
55	2"	1,6	745	70	7.5
60	2" 1/4	1,6	810	75	7.0
63	2" 1/2	1,6	845	80	7.0
70	2" 3/4"	1,6	1005	85	7.0
76	3"	1,6	1090	90	7.0
80	3" 1/8	1,6	1140	95	6.5
90	3" 1/2	1,6	1275	110	6.5
102	4"	1,6	1435	125	6.5
110	4" 5/16	1,6	1545	130	6.0
115	4" 5/16	1,6	1610	140	6.0
120	4" 3/4	1,6	1675	145	6.0
127	5"	1,6	2075	155	5.5
130	5" 1/4	1,6	2120	160	5.5
140	5" 1/2	1,6	2275	170	5.5
152	6"	1,6	2465	180	5.0
160	6" 1/4	1,6	2590	190	5.0
175	6" 1/4	1,6	2705	210	4.5
180	7"	1,6	2780	220	4.5
203	8"	1,6	3125	245	4.0
206	8"	1,6	3170	250	4.0
225	9"	1,6	3500	275	3.5
254	10"	1,6	3890	305	3.0
305	12"	1,6	5680	350	3.0
350	12"	1,6	6500	370	2.5
406	12"	1,6	7525	490	2.0
500	14"	1,6	9240	600	1.5

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Poliuretano Flex® HD 1.6 EST

Flexible, transparent, polyether-based polyurethane hose and an internal, antistatic, copper-plated steel spiral that is suitable for facilities governed by ATEX regulations for the suction of abrasion products.

Supplied
in rolls.

Copper-plated
steel spiral.

Transparent,
polyether-based
polyurethane.

Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/201 (see declaration of conformity).
- Highly resistant to abrasion, humidity and microorganisms.
- Good chemical resistance associated with PU's resistance chart.
- Withstands temperatures between -40°C and 90°C.
- Option of manufacture with polyester base subject to request.
- Product supplied in rolls.



INDUSTRIAL
USE



FOOD
USE



COPPER-PLATED
SPIRAL



SUCTION



MADE FROM
POLYURETHANE



ANTI-ABRASION



ANTISTATIC

Applications

- ▶ Suction of extremely abrasive content (iron, rebar, glass). Suction cleaning machinery in forests, roads, etc.
- ▶ Suction of highly abrasive food material that requires the food simulant E in OM2 conditions in accordance with Regulation EU 10/2011.

INT Ø mm	INT Ø in	FLEXIBLE THICKNESS mm	WEIGHT g/m	BENDING RADIUS mm	VACUUM m H ₂ O
45	1" 3/4	1,6	525	180	6
51	2"	1,6	560	200	6
60	2" 1/4	1,6	645	240	5
76	3"	1,6	900	305	5
80	3" 1/8	1,6	960	320	5
90	3" 1/2	1,6	1050	360	5
102	4"	1,6	1300	410	5
110	4" 5/16	1,6	1325	440	5
120	4" 3/4	1,6	1350	480	4
125	5"	1,6	1450	510	3
140	5" 1/2	1,6	1525	540	3
152	6"	1,6	1750	610	3
160	6" 1/4	1,6	1800	640	3
180	7"	1,6	2400	720	2
200	8"	1,6	2650	800	2
220	8" 3/4	1,6	3125	880	2
225	9"	1,6	3250	900	2
250	10"	1,6	3350	1000	2
300	12"	1,6	3500	1200	2

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Poliuretano Flex[®] Rock 2.0 EST

Tubing made of transparent polyurethane on a polyester base with spiral internal copper plated steel.

Supplied in rolls.

Transparent, polyether-based polyurethane.

Copper-plated steel spiral.

Features

- Non-toxic and for food use according to European regulations CE 1935/2004 and EU 10/2011.
 - Reinforced inside by a metallic copper wire spiral, which gives it great consistency as well as flexibility, giving it great mechanical possibilities.
 - Antistatic. Good chemical resistance,
- associated with the usual properties of PU, to microorganisms and humidity.
- Optimum resistance to abrasion (Anti-abrasive), to atmospheric agents and a wide range of chemicals.
 - Withstands temperatures between -40°C and 90°C.



INDUSTRIAL USE



FOOD USE



COPPER-PLATED SPIRAL



SUCTION



MADE FROM POLYURETHANE



ANTI-ABRASION



ANTISTATIC

Applications

- ▶ Aspirations of extreme abrasive content (iron, rebar, glass).
- ▶ Vacuum cleaning machinery in forests, roads etc.
- ▶ Aspirations of food material with a high abrasive content that requires the food simulant E in OM2 conditions according to EU regulation 10/2011.

INT Ø mm	INT Ø in	FLEXIBLE THICKNESS mm	WEIGHT g/m	BENDING RADIUS mm	VACUUM m H ₂ O
40	1" 5/8	2.0	475	50	9
45	1" 3/4	2.0	525	60	9
51	2"	2.0	580	65	9
60	2" 1/4	2.0	750	75	9
63	2" 1/2	2.0	780	80	9
65	2" 1/2	2.0	800	85	8
70	2" 3/4	2.0	835	90	8
76	3"	2.0	880	95	8
80	3" 1/8	2.0	910	100	8
90	3" 1/2	2.0	1000	115	8
102	4"	2.0	1085	125	7
110	4" 5/16	2.0	1160	140	7
120	4" 3/4	2.0	1370	150	7
127	5"	2.0	1440	120	7
130	5" 1/4	2.0	1475	160	7
140	5" 1/2	2.0	1575	175	7
152	6"	2.0	1700	190	6
160	6" 1/4	2.0	1785	200	6
170	6" 1/4	2.0	1890	210	6
180	7"	2.0	2000	225	5
203	8"	2.0	2180	250	5
220	8"	2.0	2710	275	5
230	9"	2.0	2825	300	4
254	10"	2.0	3100	325	4
305	12"	2.0	3700	380	3
320	12"	2.0	3875	400	3
356	12"	2.0	4052	450	3
406	12"	2.0	4601	525	2
450	12"	2.0	5085	570	2

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Poliuretano Flex[®] Rock 2.5 EST

Tubing made of transparent polyurethane on a polyester base with spiral internal copper plated steel.

Supplied in rolls.

Copper-plated steel spiral.

Transparent, polyether-based polyurethane.

Features

- Non-toxic and for food use according to European regulations CE 1935/2004 and EU 10/2011.
 - Reinforced inside by a metallic copper wire spiral, which gives it great consistency as well as flexibility, giving it great mechanical possibilities.
 - Antistatic. Good chemical resistance,
- associated with the usual properties of PU, to microorganisms and humidity.
- Optimum resistance to abrasion (Anti-abrasive), to atmospheric agents and a wide range of chemicals.
 - Withstands temperatures between -40°C and 90°C.



INDUSTRIAL USE



FOOD USE



COPPER-PLATED SPIRAL



SUCTION



MADE FROM POLYURETHANE



ANTI-ABRASION



ANTISTATIC

Applications

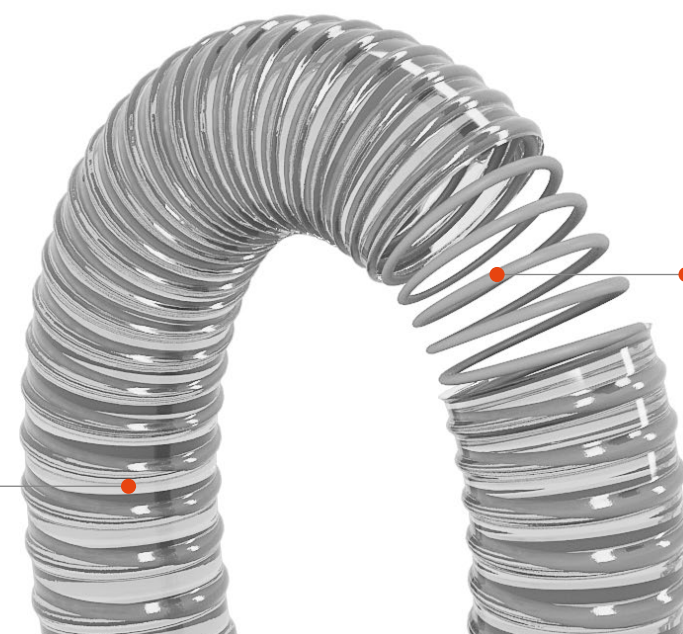
- ▶ Aspirations of extreme abrasive content (iron, rebar, glass). Vacuum cleaning machinery in forests, roads, etc.
- ▶ Aspirations of food material with a high abrasive content that require the food simulant E in OM2 conditions according to EU regulation 10/2011.

INT Ø mm	INT Ø in	FLEXIBLE THICKNESS mm	WEIGHT g/m	BENDING RADIUS mm	VACUUM m H ₂ O
40	1" 5/8	2,5	590	60	9
45	1" 3/4	2,5	650	70	9
51	2"	2,5	715	80	9
60	1" 3/4	2,5	900	90	9
63	2" 1/2	2,5	940	95	9
65	2" 1/2	2,5	965	100	9
70	2" 3/4	2,5	1010	105	9
76	3"	2,5	1065	115	9
80	3" 1/8	2,5	1100	120	8
90	3" 1/2	2,5	1200	135	8
102	4"	2,5	1315	150	8
110	4" 5/16	2,5	1400	165	8
120	4" 3/4	2,5	1635	180	8
127	5"	2,5	1722	190	8
130	5" 1/2	2,5	1760	195	7
140	5" 1/2	2,5	1880	210	7
152	6"	2,5	2025	230	7
160	6" 1/4	2,5	2125	240	7
170	7"	2,5	2250	255	7
180	7"	2,5	2370	270	6
203	8"	2,5	3025	305	6
220	9"	2,5	3170	330	6
230	9"	2,5	3300	345	6
254	10"	2,5	3625	380	6
305	10"	2,5	4300	450	4
320	12"	2,5	4500	480	4
356	14"	2,5	4760	535	4
406	16"	2,5	5400	610	3
450	18"	2,5	5970	675	3

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Espiro® PU ET

Transparent, polyether-based polyurethane pumping and suction hose, reinforced with a rigid, anti-shock PVC spiral, for abrasive products.



Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011 (see declaration of conformity).
- Great flexibility (bending radius = internal diameter). Extremely light.
- Highly resistant to abrasion, humidity and microorganisms.
- The hose wall is smooth on the inside and corrugated on the outside.
- Good chemical resistance associated with PU's resistance chart.
- Recommended temperature for use between -25°C and 85°C.
- Option of manufacture with polyester base subject to request.



INDUSTRIAL
USE



FOOD
USE



AGRICULTURAL
USE



SUCTION



SMOOTH
INTERIOR



ANTI-ABRASION



MADE FROM
POLYURETHANE



PVC
SPIRAL



TEMPERATURE
-25 °C TO 85 °C



FREE FROM
Cd / Pb / Ba

Applications

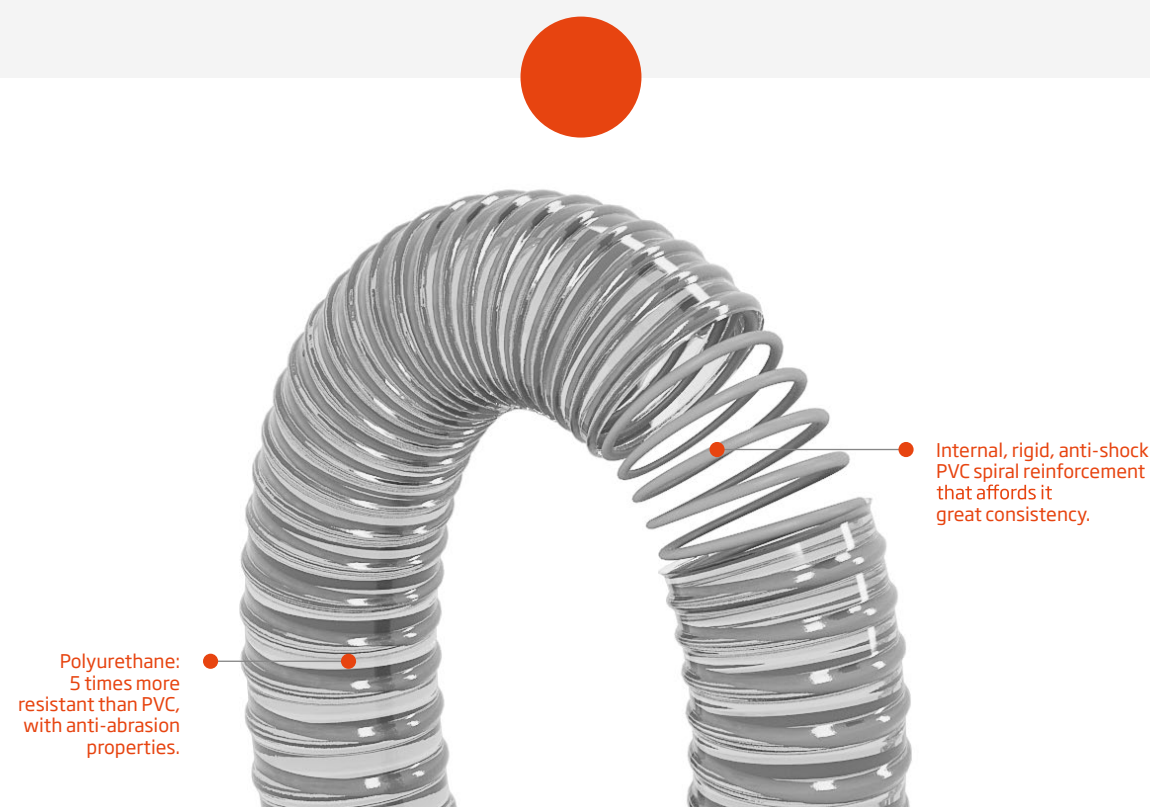
- ▶ Pumping and suction of gases, smoke and abrasive products, such as sawdust, pellets, rebar and dust, in addition to food products that require food simulant E in OM2 conditions in accordance with Regulation EU 10/2011.
- ▶ Suction of abrasive material in industrial facilities with special need for resistance to abrasion, constant mechanical movement, and the application of force or repetitive impacts.

INT Ø mm	INT Ø in	FLEXIBLE THICKNESS mm	WEIGHT g/m	BENDING RADIUS mm	VACUUM m H ₂ O
25	1"	0.5	154	25	3
32	1" 1/4	0.5	180	32	3
35	1" 3/8	0.5	195	35	3
38	1" 1/4	0.5	225	38	3
40	1" 5/8	0.5	250	40	3
45	1" 3/4	0.5	260	45	3
51	2"	0.5	300	50	3
60	2" 1/4	0.5	425	60	3
63	2" 1/2	0.5	445	60	3
70	2" 3/4	0.5	500	70	3
76	3"	0.5	550	75	3
80	3" 1/8	0.5	590	80	3
90	3" 1/2	0.6	670	90	3
102	4"	0.6	870	100	3
110	4" 5/16	0.6	950	110	3
120	4" 3/4	0.6	1000	120	3
127	5"	0.6	1100	125	3
130	5" 1/4	0.6	1200	130	3
140	5" 1/2	0.7	1300	140	3
152	6"	0.7	1500	150	3
160	6" 1/4	0.8	1700	160	3
170	6" 3/4	0.8	1900	170	3
180	7"	0.8	1950	180	3
203	8"	1	2200	200	3
254	10"	1	2600	250	3
305	12"	1	3425	300	3

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Espiro® PU EST

Transparent, polyester-based polyurethane pumping and suction hose, reinforced with a rigid, anti-shock PVC spiral, for abrasive products.



Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011 (see declaration of conformity).
- Great flexibility (bending radius = internal diameter). Extremely light.
- Highly resistant to abrasion, humidity and microorganisms.
- The hose wall is smooth on the inside and corrugated on the outside.
- Good chemical resistance associated with PU's resistance chart.
- Recommended temperature for use between -25°C and 85°C.
- Option of manufacture with polyester base subject to request.



INDUSTRIAL USE



FOOD USE



AGRICULTURAL USE



SUCTION



SMOOTH INTERIOR



ANTI-ABRASION



MADE FROM POLYURETHANE



PVC SPIRAL



TEMPERATURE -25 °C TO 85 °C



FREE FROM Cd / Pb / Ba

Applications

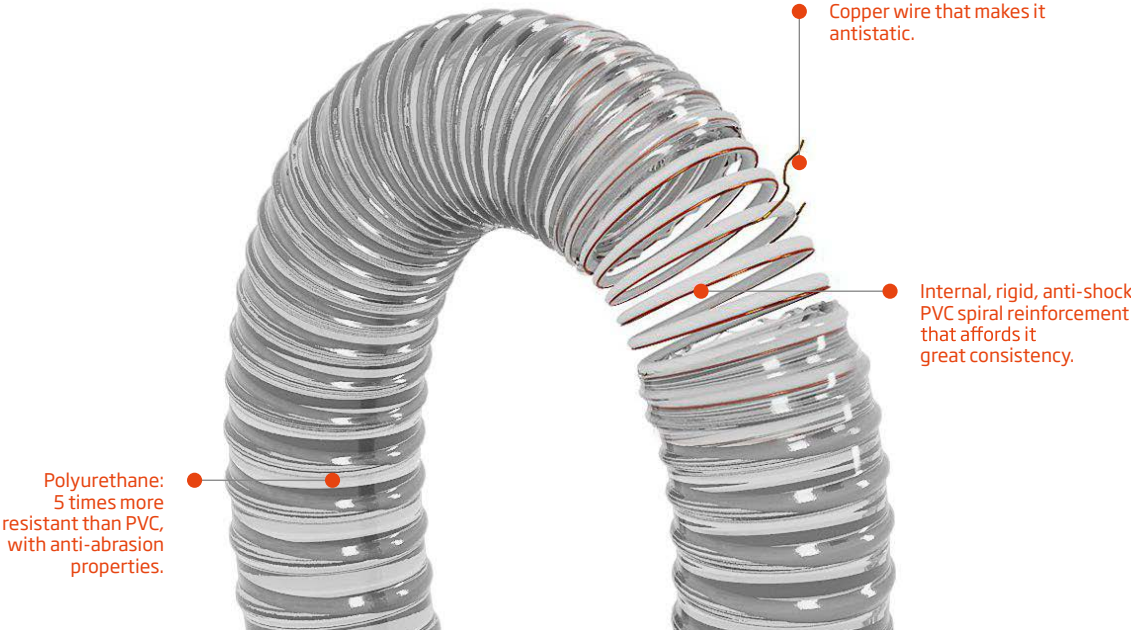
- ▶ Pumping and suction of gases, smoke and abrasive products, such as sawdust, pellets, rebar and dust, in addition to food products that require food simulant E in OM2 conditions in accordance with Regulation EU 10/2011.
- ▶ Suction of abrasive material in industrial facilities with special need for resistance to abrasion, constant mechanical movement, and the application of force or repetitive impacts.

INT Ø mm	INT Ø in	FLEXIBLE THICKNESS mm	WEIGHT g/m	BENDING RADIUS mm	VACUUM m H ₂ O
32	1" 1/4	0.5	180	32	3
35	1" 3/8	0.5	195	35	3
38	1" 1/4	0.5	225	38	3
40	1" 5/8	0.5	250	40	3
45	1" 3/4	0.5	260	45	3
51	2"	0.5	305	50	3
60	2" 1/4	0.5	425	60	3
63	2" 1/2	0.5	445	60	3
70	2" 3/4	0.5	500	70	3
75	3"	0.5	550	75	3
80	3" 1/8	0.5	590	80	3
90	3" 1/2	0.6	670	90	3
102	4"	0.6	870	100	3
110	4" 5/16	0.6	950	110	3
120	4" 3/4	0.6	1000	120	3
125	5"	0.6	1100	125	3
130	5" 1/4	0.6	1200	130	3
140	5" 1/2	0.7	1300	140	3
150	6"	0.7	1500	150	3
160	6" 1/4	0.8	1700	160	3
170	6" 3/4	0.8	1900	170	3
180	7"	0.8	1950	180	3
200	8"	1.0	2200	200	3
250	10"	1.0	2600	250	3
300	12"	1.0	3425	300	3

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Espiro® PU Antiestático

Transparent, polyether-based polyurethane pumping and suction hose, reinforced with a rigid, anti-shock PVC spiral, for abrasive products. Equipped with a copper wire that grants it an antistatic feature, making it perfect for facilities governed by ATEX regulations.



Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011 (see declaration of conformity).
- Great flexibility (bending radius = internal diameter). Extremely light.
- Highly resistant to abrasion, humidity and microorganisms.
- The hose wall is smooth on the inside and corrugated on the outside.
- Good chemical resistance associated with PU's resistance chart.
- Recommended temperature for use between -25°C and 85°C.
- Option of manufacture with polyester base subject to request.

INDUSTRIAL USE

FOOD USE

AGRICULTURAL USE

SUCTION

SMOOTH INTERIOR

ANTI-ABRASION

MADE FROM POLYURETHANE

PVC SPIRAL

TEMPERATURE -25 °C TO 85 °C

FREE FROM Cd / Pb / Ba

ANTISTATIC

Applications

- ▶ Pumping and suction of gases, smoke and abrasive products, such as sawdust, pellets, rebar and dust, in addition to food products that require food simulant E in OM2 conditions in accordance with Regulation EU 10/2011.
- ▶ Suction of abrasive material in industrial facilities with special need for resistance to abrasion, constant mechanical movement, and the application of force or repetitive impacts.

INT Ø mm	INT Ø in	FLEXIBLE THICKNESS mm	WEIGHT g/m	BENDING RADIUS mm	VACUUM m H ₂ O
32	1" 1/4	0.5	180	32	3
35	1" 3/8	0.5	195	35	3
38	1" 1/4	0.5	225	38	3
40	1" 5/8	0.5	250	40	3
45	1" 3/4	0.5	260	45	3
51	2"	0.5	305	50	3
60	2" 1/4	0.5	425	60	3
63	2" 1/2	0.5	445	60	3
70	2" 3/4	0.5	500	70	3
75	3"	0.5	550	75	3
80	3" 1/8	0.5	590	80	3
90	3" 1/2	0.6	670	90	3
102	4"	0.6	870	100	3
110	4" 5/16	0.6	950	110	3
120	4" 3/4	0.6	1000	120	3
125	5"	0.6	1100	125	3
130	5" 1/4	0.6	1200	130	3
140	5" 1/2	0.7	1300	140	3
150	6"	0.7	1500	150	3
160	6" 1/4	0.8	1700	160	3
170	6" 3/4	0.8	1900	170	3
180	7"	0.8	1950	180	3
200	8"	1.0	2200	200	3
250	10"	1.0	2600	250	3
300	12"	1.0	3425	300	3

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

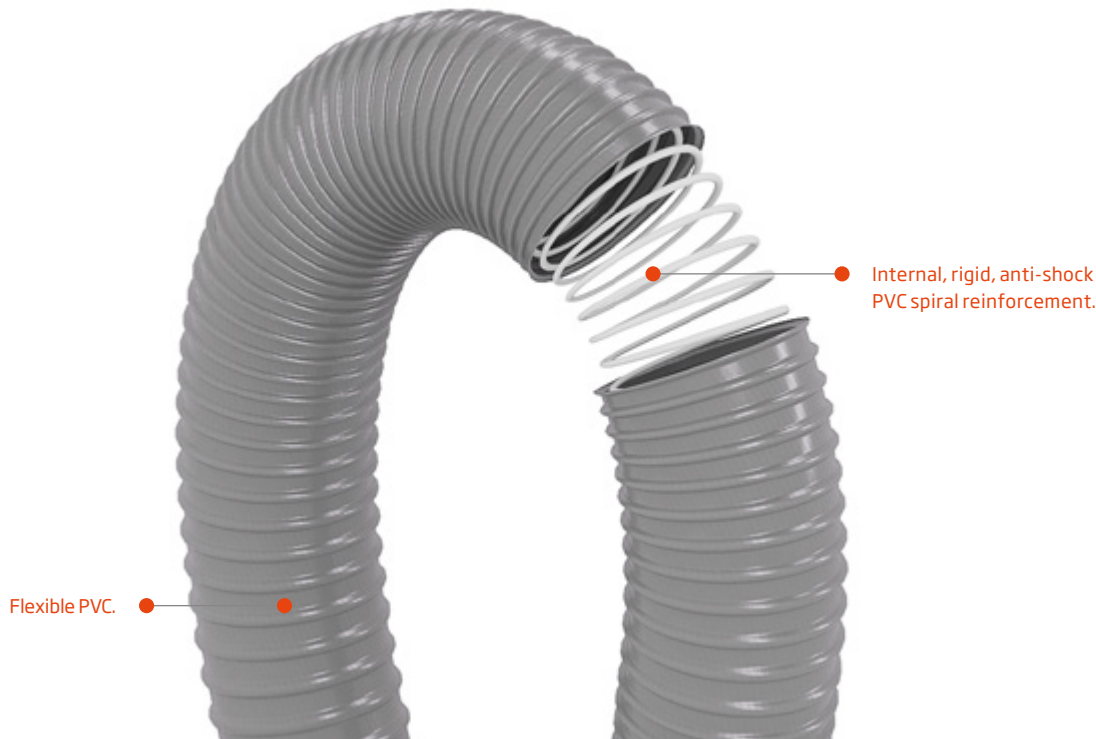


Espiroair®

Flexible PVC hose, reinforced with a rigid, anti-shock PVC spiral, designed for suction, gas supply and industrial ventilation.

Applications

- ▶ Suction, piping and pumping of smoke, sawdust, seeds, textile fibres, etc.
- ▶ Industrial suction and ventilation.



Features

- For industrial use.
- Fireproof in accordance with standard UL94 category V2 (UL94 category V0 available on request).
- Great flexibility (bending radius = internal diameter) and lightness.
- Smooth internal surface and corrugated external surface.
- Good chemical resistance associated with PVC's resistance chart.
- Withstands temperatures between -10°C and 60°C.



INDUSTRIAL USE



VENTILATION



SUCTION



METAL SPIRAL



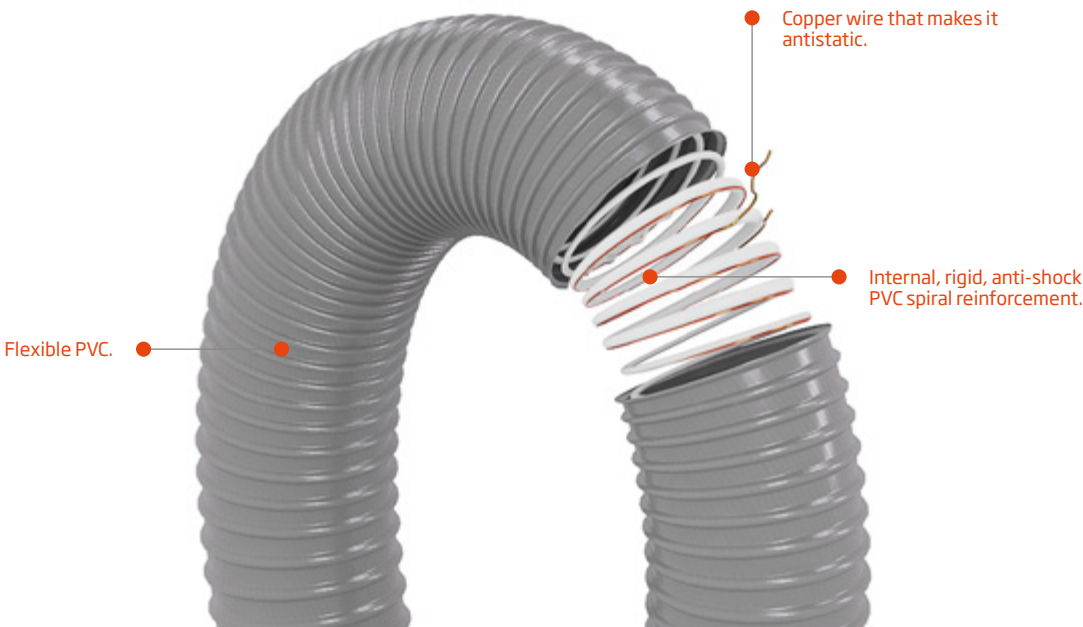
TEMPERATURE -10°C TO 60°C

INT Ø mm	INT Ø in	WEIGHT g/m	BENDING RADIUS mm	VACUUM m H ₂ O
15	5/8"	100	15	5
20	3/4"	120	20	5
25	1"	170	25	5
30	1" 1/8	210	30	5
32	1" 1/4	218	32	5
35	1" 3/8	240	35	5
38	1" 1/2	260	38	5
40	1" 5/8	280	40	5
45	1" 3/4	410	45	4
51	2"	450	50	4
55	1" 1/8	490	55	4
60	2" 1/4	540	60	4
63	2" 1/2	590	65	4
70	2" 3/4	640	70	4
76	3"	690	75	4
80	3" 1/8	780	80	4
90	3" 1/2	830	90	4
102	4"	980	100	4
110	4" 5/16	1150	110	4
120	4" 3/4	1200	120	4
127	5"	1250	125	4
130	5" 1/4	1300	130	4
140	5" 1/2	1500	140	4
150	6"	1700	150	4
160	6" 1/4	1825	160	4
180	7"	2200	180	4
203	8"	2400	200	4
254	10"	3000	250	4
305	12"	3600	300	4

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Espiroair® Antiestático

Transparent, polyether-based polyurethane pumping and suction hose, reinforced with a rigid, anti-shock PVC spiral, for abrasive products. Equipped with a copper wire that grants it an antistatic feature, making it perfect for facilities governed by ATEX regulations.



Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011 (see declaration of conformity).
- Great flexibility (bending radius = internal diameter). Extremely light.
- Highly resistant to abrasion, humidity and microorganisms.
- Equipped with a copper wire that makes it antistatic.
- The hose wall is smooth on the inside and corrugated on the outside.
- Good chemical resistance associated with PU's resistance chart.
- Recommended temperature for use between -20°C and 80°C.
- Option of manufacture with polyester base subject to request.



INDUSTRIAL USE



FOOD USE



AGRICULTURAL USE



SUCTION



SMOOTH INTERIOR



ANTI-ABRASION



MADE FROM POLYURETHANE



PVC SPIRAL



TEMPERATURE -20 °C TO 80 °C



FREE FROM Cd / Pb / Ba



ANTISTATIC

Applications

- ▶ Pumping and suction of gases, smoke and abrasive products, such as sawdust, pellets, rebar and dust, in addition to food products that require food simulant E in OM2 conditions in accordance with Regulation EU 10/2011.
- ▶ Suction of abrasive material in industrial facilities with special need for resistance to abrasion, constant mechanical movement, and the application of force or repetitive impacts.

INT Ø mm	INT Ø in	FLEXIBLE THICKNESS mm	WEIGHT g/m	BENDING RADIUS mm	VACUUM m H ₂ O
32	1" 1/4	0.5	180	32	3
35	1" 3/8	0.5	195	35	3
38	1" 1/4	0.5	225	38	3
40	1" 5/8	0.5	250	40	3
45	1" 3/4	0.5	260	45	3
51	2"	0.5	305	50	3
60	2" 1/4	0.5	425	60	3
63	2" 1/2	0.5	445	60	3
70	2" 3/4	0.5	500	70	3
75	3"	0.5	550	75	3
80	3" 1/8	0.5	590	80	3
90	3" 1/2	0.6	670	90	3
102	4"	0.6	870	100	3
110	4" 5/16	0.6	950	110	3
120	4" 3/4	0.6	1000	120	3
125	5"	0.6	1100	125	3
130	5" 1/4	0.6	1200	130	3
140	5" 1/2	0.7	1300	140	3
150	6"	0.7	1500	150	3
160	6" 1/4	0.8	1700	160	3
170	6" 3/4	0.8	1900	170	3
180	7"	0.8	1950	180	3
200	8"	1.0	2200	200	3
250	10"	1.0	2600	250	3
300	12"	1.0	3425	300	3

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters



Espiroair® Oil

Flexible PVC hose specially designed for aspiration of oily fumes, reinforced with a rigid, anti-shock PVC spiral, designed for suction, gas supply and industrial ventilation.



Plasticised PVC.

Internal, rigid, anti-shock PVC spiral reinforcement.

Features

- Tube made from flexible PVC with rigid spiral, practically non deformable and anti-choke.
- The inner surface is smooth while the exterior one is corrugated.
- Great flexibility (bending radius equal to interior diameter) and lightness.
- Resistant to impacts, atmospheric agents, to smoke and to a wide range of chemical products.
- Temperature range between -15°C and 65°C.
- Resistant to fire, according to the Quality Norm UL94, V0 category.



INDUSTRIAL USE



VENTILATION



SUCTION



METAL SPIRAL



TEMPERATURE
-10°C TO 60°C

Applications

- ▶ Aspiration and impulsion of fumes, shavings, seeds, textile fibres, etc, where protection from fire is necessary.
- ▶ Industrial suction and ventilation.
- ▶ Smoke extraction with oily property.

INT Ø mm	INT Ø in	WEIGHT g/m	BENDING RADIUS mm	VACUUM m H ₂ O
25	1"	170	25	6
35	1" 3/8	240	35	5
60	2" 1/4	540	60	4
80	3" 1/8	780	80	4
102	4"	980	100	4
127	5"	1270	127	4
152	6"	1700	150	4
203	8"	2400	200	4

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters



Espiroair® UL94 V0

Flexible PVC pipe reinforced with anti-shock rigid PVC spiral indicated for aspirations, gas pipes and industrial ventilation.
Fire resistant according to Quality Standard UL94 category V0.

Applications

- ▶ Aspiration and impulsion of fumes, shavings, seeds, textile fibres, etc, where protection from fire is necessary.
- ▶ Industrial suction and ventilation.



Features

- Tube made from flexible PVC with rigid spiral, practically non deformable and anti-choke.
- The inner surface is smooth while the exterior one is corrugated.
- Great flexibility (bending radius equal to interior diameter) and lightness.
- Resistant to impacts, atmospheric agents, to smoke and to a wide range of chemical products.
- Temperature range between -15°C and 65°C.
- Resistant to fire, according to the Quality Norm UL94, V0 category.



INDUSTRIAL
USE



VENTILATION



SUCTION



METAL
SPIRAL



TEMPERATURE
-10°C TO 60°C

INT Ø mm	INT Ø in	WEIGHT g/m	BENDING RADIUS mm	VACUUM m H ₂ O
32	1" 1/4	205	32	5
51	2"	430	50	4
60	2" 1/4	500	60	4
70	2" 3/4	580	70	4
80	3" 1/8	750	80	4
102	4"	970	100	4
110	4" 5/16	1100	110	4
120	4" 3/4	1200	120	4
140	5" 1/2	1450	140	4
152	6"	1600	150	4
203	8"	2400	200	4
250	10"	3000	250	4
300	12"	3600	300	4

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

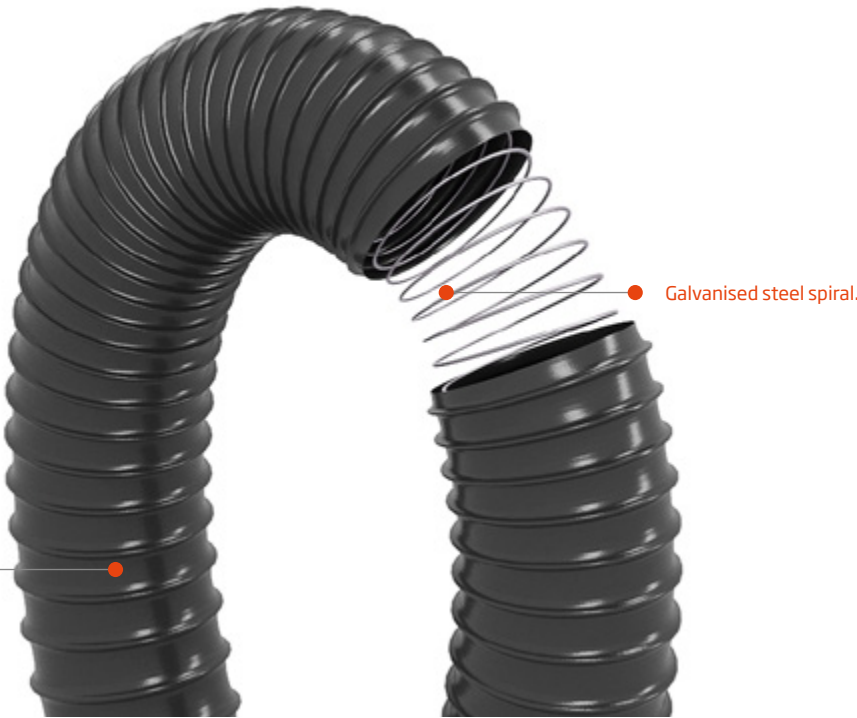


Vacumflex®

Plasticised PVC hose, reinforced with a galvanised steel spiral that grants it an antistatic feature, making it perfect for facilities governed by ATEX regulations and designed for industrial ventilation of low-abrasion content.

Applications

► Suction of low-abrasion content, dust, gases, sawdust, threads, etc.



Features

- For industrial use.
- Highly flexible and light.
- Antistatic.
- Good chemical resistance associated with PVC's resistance chart.
- Recommended temperature for use between -10°C and 60°C.



INDUSTRIAL USE



VENTILATION



SUCTION



METAL SPIRAL



LIGHT



FREE
Cd-Pb-Ba



TEMPERATURE
-10°C TO 60°C

INT Ø mm	INT Ø in	WEIGHT g/m	BENDING RADIUS mm	VACUUM m H ₂ O
40	1" 5/8	430	47	3
45	1" 3/4	470	52	3
51	2"	530	57	2.5
60	2" 1/4	630	67	2.5
70	2" 3/4	670	77	2.5
76	3"	730	82	2.5
80	3" 1/8	790	88	2.5
90	3" 1/2	820	98	2.5
102	4"	1200	108	2.5
110	4" 5/16	1300	118	2.5
120	4" 3/4	1360	128	2.5
127	5"	1420	133	2.5
130	5" 1/4	1500	138	1.2
140	5" 1/2	1700	148	1.2
150	6"	1750	158	1.2
160	6" 1/4	1800	168	1.2
170	6" 3/4	2050	178	1.2
180	7"	2150	188	1.2
203	8" 3/4	2250	208	1
254	10"	3150	260	1
305	12"	3800	310	0.5
350	14"	4450	360	0.5
400	16"	5000	410	0.5
450	18"	5300	460	0.2
500	20"	5700	510	0.2
600	24"	5800	610	0.2

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

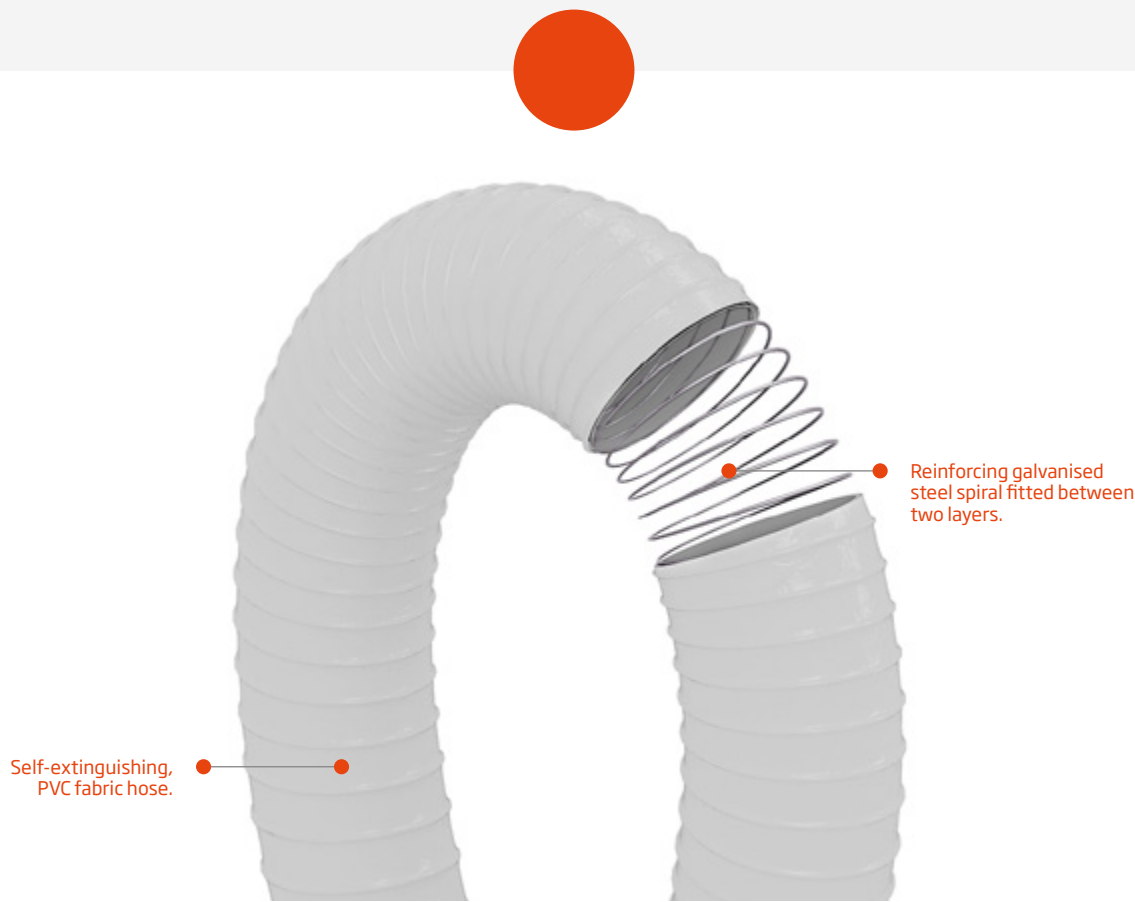


Extraflex®

Hose made of self-extinguishing PVC fabric, reinforced by a galvanised copper spiral, for the suction of smoke and ventilation systems.

Applications

► Air conditioning facilities (civil and naval), ventilation, suction of smoke, vapours, dust, gas, etc.



Features

- Hose made from plasticised PVC, reinforced with self-extinguishing PVC fabric and with a reinforcing galvanised steel spiral fitted between two layers.
- Full flexibility and extremely light.
- Fire resistant in accordance with category M2.
- Resistant to smoke and gases. Good chemical resistance associated with PVC's usual properties.
- Withstands maximum temperatures from -15°C to 90°C.



INDUSTRIAL
USE



VENTILATION



SUCTION



METAL
SPIRAL



M2 FIREPROOF



INT Ø mm	INT Ø in	TOTAL THICKNESS mm	WEIGHT g/m	BENDING RADIUS mm	VACUUM m H ₂ O
40	1" 5/8	1.1	110	20	2.5
51	2"	1.1	120	25	2
60	2" 1/4	1.1	140	30	1.9
63	2" 1/2	1.3	160	30	1.8
70	2" 3/4	1.3	175	35	1.8
76	3"	1.3	190	40	1.8
80	3" 1/8	1.3	195	40	1.7
90	3" 1/2	1.3	220	45	1.5
102	4"	1.3	228	50	1.3
110	4" 5/16	1.5	250	55	1.2
120	4" 3/4	1.5	295	60	1.1
127	5"	1.5	315	63	1
130	5" 1/4	1.5	325	65	0.95
140	5" 1/2	1.5	350	70	0.9
152	6"	1.8	370	75	0.85
160	6" 1/4	1.8	440	80	0.80
180	7"	1.8	480	90	0.75
203	8"	1.8	550	100	0.7
228	9"	1.8	580	115	0.65
254	10"	2.1	690	125	0.6
280	11"	2.1	880	140	0.5
305	12"	2.1	900	150	0.5
356	14"	2.1	1100	175	0.4
406	16"	2.1	1280	200	0.3
500	20"	2.1	1500	250	0.3
550	22"	2.1	1610	275	0.2
600	24"	2.1	1750	320	0.2

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

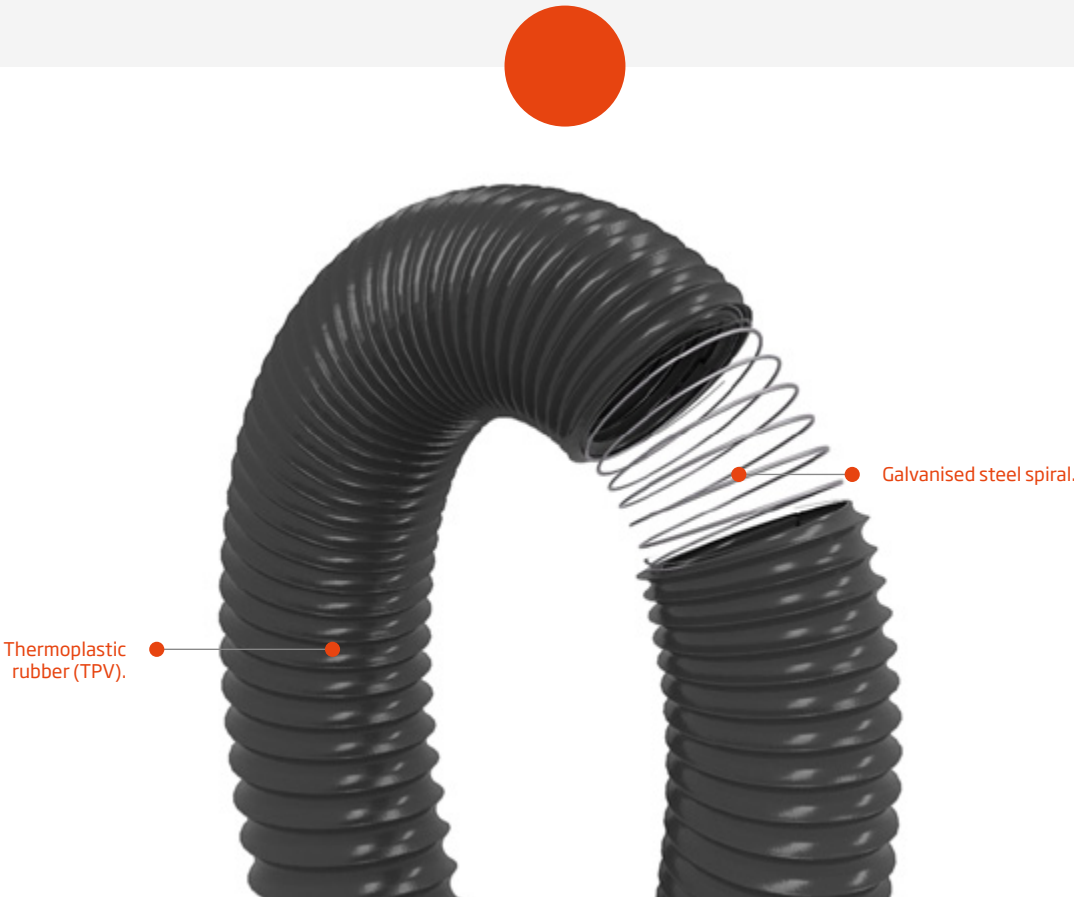


Espiopreno®

Hose made from thermoplastic rubber, reinforced with a special galvanised steel spiral, for suctioning gases and smoke at high temperatures.

Applications

► Suction of hot gases and smoke from welding and engines.



Features

- For industrial use.
- Highly flexible and very light, as well as highly resilient thanks to TPV's properties.
- Fireproof in accordance with regulation UL94 category HB.
- Good chemical resistance associated with TPV's resistance chart. Excellent resistance to fatigue, ozone and industrial smoke.
- Withstands temperatures between -40°C and 135°C.



INT Ø mm	INT Ø in	FLEXIBLE THICKNESS mm	WEIGHT g/m	BENDING RADIUS mm	VACUUM m H ₂ O
40	1" 5/8	0.4	165	32	2
45	1" 3/4	0.5	200	36	2
51	2"	0.5	230	40	2
55	1" 1/8	0.5	245	45	2
60	2" 1/4	0.5	260	50	1,7
63	2" 1/2	0.5	270	55	1,7
70	2" 3/4	0.5	280	60	1,7
76	3"	0.6	295	65	1,7
80	3" 1/8	0.6	340	65	1,6
90	3" 1/2	0.6	380	75	1,6
102	4"	0.6	500	85	1,3
110	4" 5/16	0.65	550	90	1,2
120	4" 3/4	0.65	610	100	1
127	5"	0.65	650	105	1
130	5" 1/4	0.75	690	105	0,8
140	5" 1/2	0.75	720	115	0,8
152	6"	0.75	900	125	0,8
160	6" 1/4	0.75	960	130	0,7
180	7"	0.8	1090	150	0,5
203	8"	0.8	1170	165	0,4
254	10"	0.8	1500	210	0,4
305	12"	0.8	1700	250	0,3
356	14"	0.8	2200	300	0,3
406	16"	0.8	2675	350	0,3
456	18"	0.8	3425	400	0,3
500	20"	0.8	4600	450	0,2
600	24"	0.8	5600	550	0,2

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

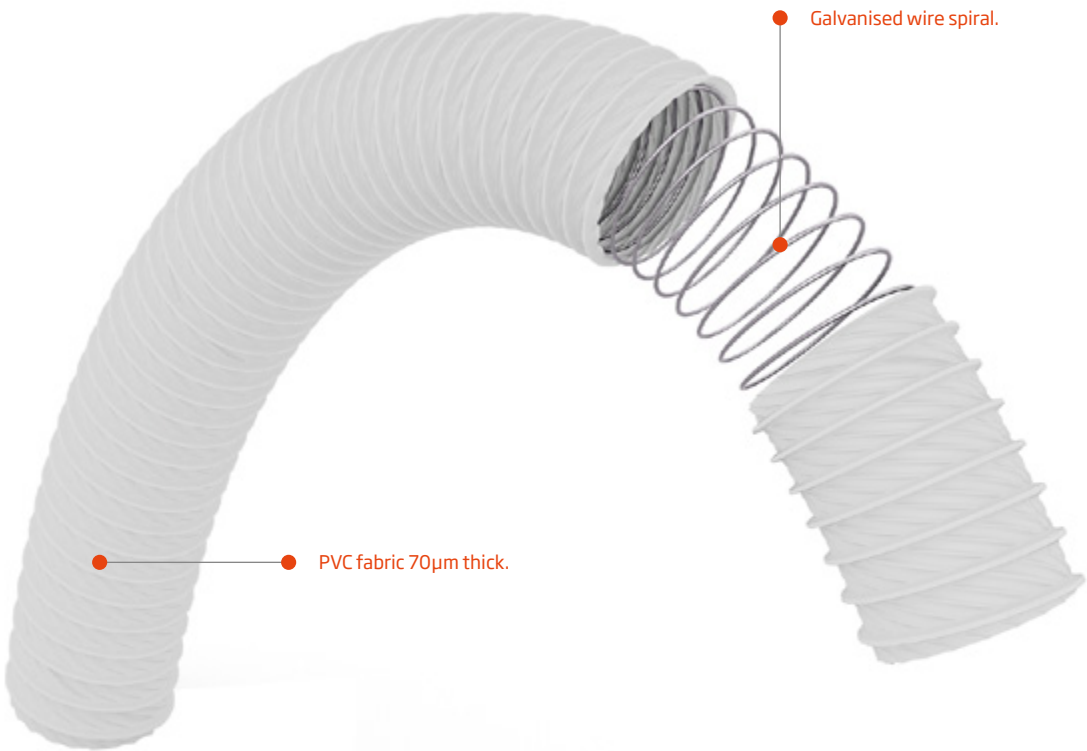


Superflex Air®

Hose made from PVC fabric, reinforced with a galvanised steel spiral, for ventilation systems in dryers and air extractors in caravans.

Applications

► Ventilation systems in dryers and air extractors in caravans.



Features

- For industrial use.
- Very flexible and extremely light.
- Good chemical resistance associated with PVC's resistance chart.
- Withstands temperatures between -10°C and 60°C.



INDUSTRIAL
USE



VENTILATION



SUCTION



METAL
SPIRAL



VERY FLEXIBLE

INT Ø mm	INT Ø in	WEIGHT g/m	BENDING RADIUS mm	VACUUM m H ₂ O
82	3" 1/4	65	41	1.5
90	3" 1/2	70	45	1.4
102	4"	76	50	1.3
110	4" 5/16	90	55	1.1
127	5"	100	63	1
152	6"	120	75	0.85

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

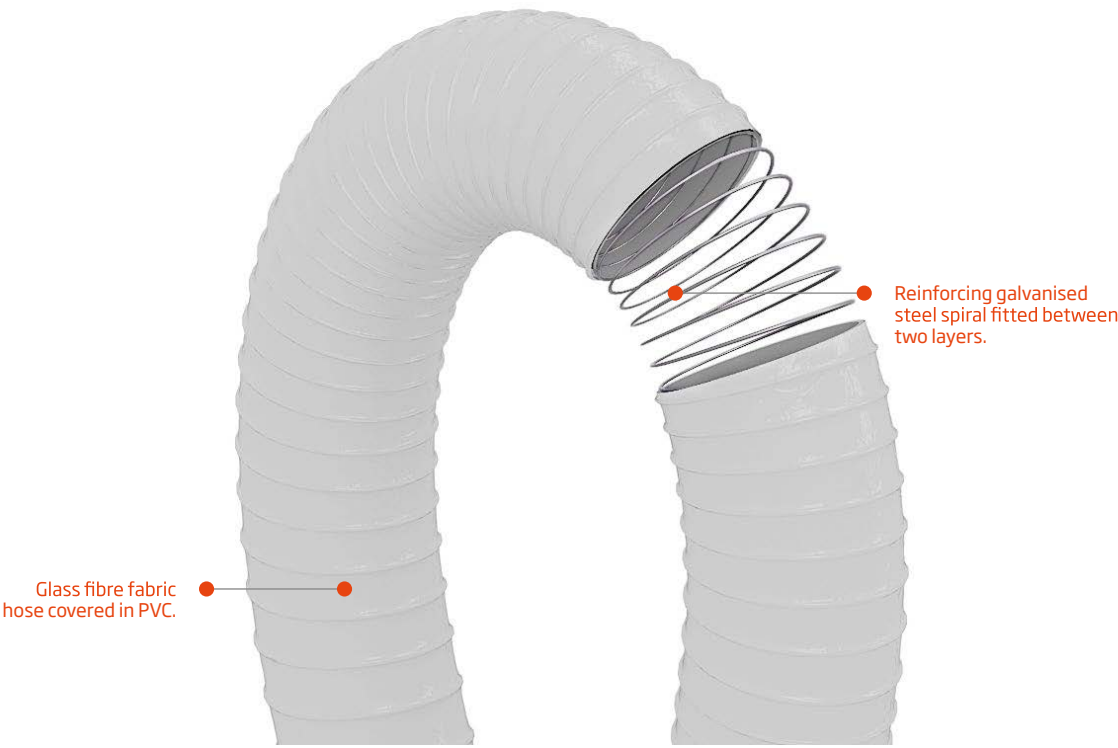


Thermoflex®

Hose made of glass fibre fabric, covered in plasticised PVC, with special resistance to traction and tears. Designed specifically for ventilation and the suction of smoke, vapours and dust. Resistant to high temperatures and self-extinguishing.

Applications

► Air conditioning facilities (civil and naval), ventilation, suction of smoke, vapours, dust, gas, etc.



Features

- For industrial use.
- Resistant to smoke and gases. Good chemical resistance associated with PVC's usual properties.
- Full flexibility and extremely light.
- Withstands temperatures between -40°C and 130°C.



INDUSTRIAL
USE



VENTILATION



SUCTION



METAL
SPIRAL

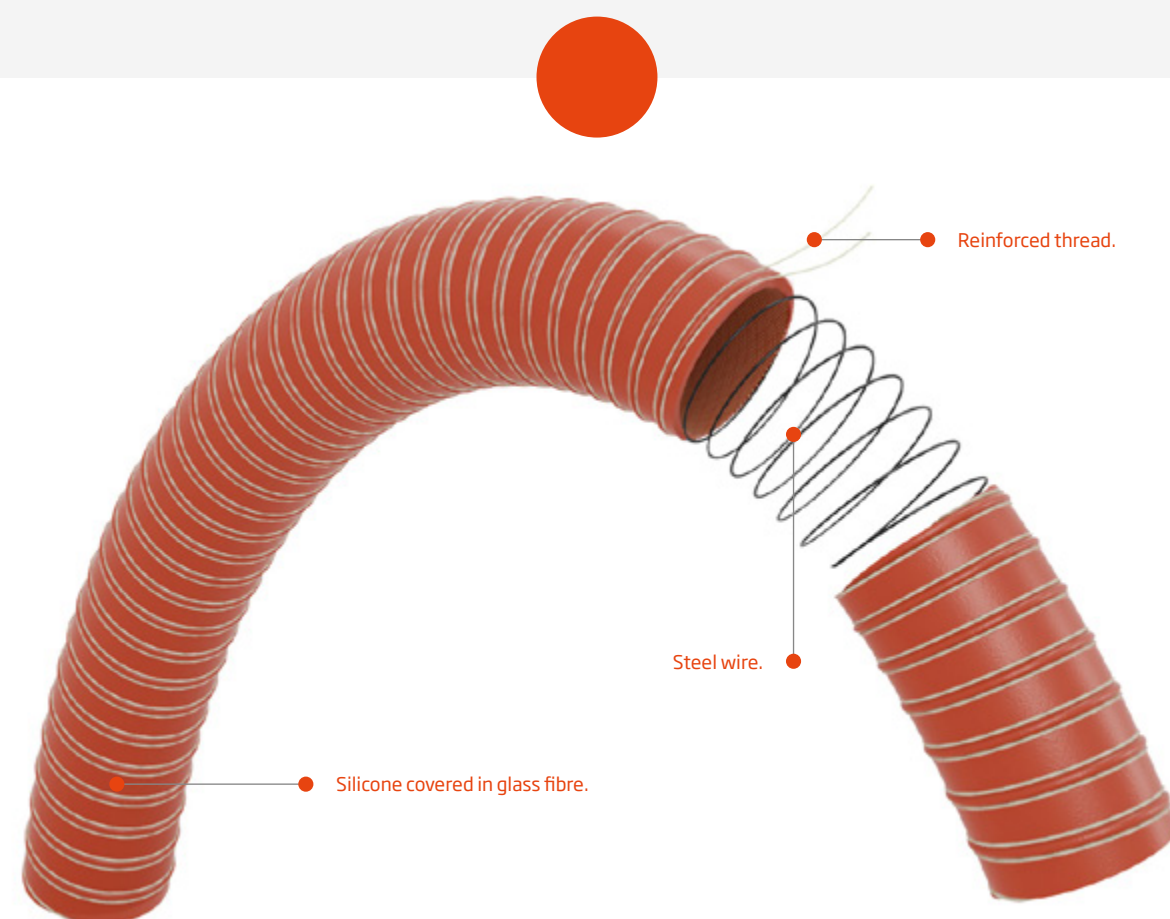
INT Ø mm	INT Ø in	WEIGHT g/m	BENDING RADIUS mm	VACUUM m H ₂ O
40	1" 5/8	110	20	2.5
51	2"	120	25	2.0
60	2" 1/4	140	30	1.9
63	2" 1/2	160	30	1.8
70	2" 3/4	175	35	1.8
76	3"	190	40	1.8
80	3" 1/8	195	40	1.7
90	3" 1/2	220	45	1.5
102	4"	228	50	1.3
110	4" 5/16	250	55	1.2
120	4" 3/4	295	60	1.1
127	5"	315	63	1.0
130	5" 1/4	325	65	0.95
140	5" 1/2	350	70	0.90
152	6"	370	75	0.85
160	6" 1/4	440	80	0.80
180	7"	480	90	0.75
203	8"	550	100	0.70
228	9"	580	115	0.65
254	10"	690	125	0.60
280	11"	880	140	0.50
305	12"	900	150	0.5
356	14"	1100	175	0.40
406	16"	1280	200	0.30
450	18"	1315	225	0.30
500	20"	1500	250	0.30
550	22"	1610	275	0.20
600	24"	1750	320	0.2

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters



Espirosilicone®

Fireproof, silicone hose covered in glass fibre.
Designed to pipe air at high temperatures.



Features

- Silicone wall covered in glass fibre.
- Reinforced by a steel spiral fitted in the wall.
- The spiral's position is fixed by path cords on each side.
- Double layer.
- Highly resistant to heat.
- Waterproof, smooth interior, flexible.
- Large bending radius. Anti-knotting.
- Fire-retardant UL94.
- Temperature range -70°C to 260°C.



INDUSTRIAL
USE



VENTILATION



ANTISTATIC



HIGH
TEMPERATURES



METAL
SPIRAL



FREE
Cd / Pb / Ba

Applications

- ▶ Piping of hot and cold air.
- ▶ Piping/transfer of chippings in dryers in the plastic industry.
- ▶ Blowers, compressors and printers.
- ▶ Gas extinguishing technologies, engine construction, heat engines, aircraft construction and military industry.

INT Ø mm	INT Ø in	EXT Ø mm	WEIGHT g/m	BENDING RADIUS mm	VACUUM m H ₂ O
20	¾"	24	120	24	7.3
25	1"	29	190	29	7.1
32	1" ¼	36	280	36	6.5
38	1" ½	43	310	43	6.0
44	1" ¾	49	350	49	5.8
51	2"	57	390	57	5.2
63	2" ½	68	490	68	4.6
76	3"	81	600	81	4.3
90	3" ½	95	710	95	4.0
102	4"	107	800	107	3.5
114	4" ½	120	890	120	3.0
127	5"	133	960	133	2.3
140	5" ½	146	1100	146	2.0
152	6"	158	1400	158	1.7
165	6" ½	171	1700	171	1.2
178	7"	184	1430	184	1.2
203	8"	209	1900	209	0.9
254	10"	260	2090	260	0.7
305	12"	311	2610	311	0.7

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

EspiroEVA®

Opaque, highly flexible, light hose made of ethylene copolymers for domestic and industrial suction.



Made with ethylene copolymers, and highly resistant to deformation, UV rays and harsh weather conditions.

Features

- For domestic and industrial use.
- Highly resistant to permanent deformities.
- Resistant to UV rays, the cold and breakage when extended.
- Its bending radius is approximately twice its external diameter.
- Minimum pressure drop.
- Withstands temperatures between -30°C and 55°C.
- Can also be made in black.



INDUSTRIAL
USE



DOMESTIC
USE



SUCTION



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba

Applications

► Domestic vacuums and in vehicles.

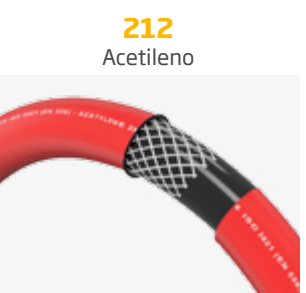
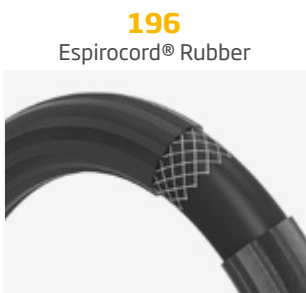
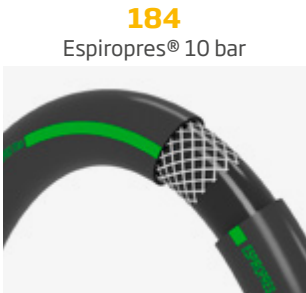


INT Ø mm	INT Ø in	EXT Ø mm	WEIGHT g/m	BENDING RADIUS mm	VACUUM m H ₂ O	COLOURS AVAILABLE
25	1"	32	160	65	9	 
32	1" 1/4	41	260	82	9	
38	1" 1/2	47	300	93	9	
45	1" 3/4	55	450	111	9	
51	2"	60	460	122	9	
60	2" 1/4	70	600	146	9	

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters



Pressure



Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features.



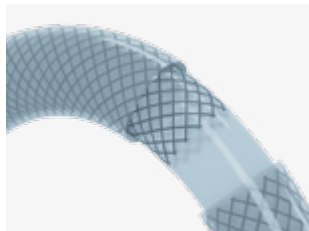
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Bitubo



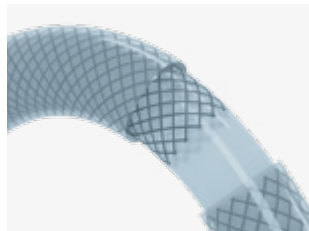
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Mallatrans®



218

Mallatrans® EVA

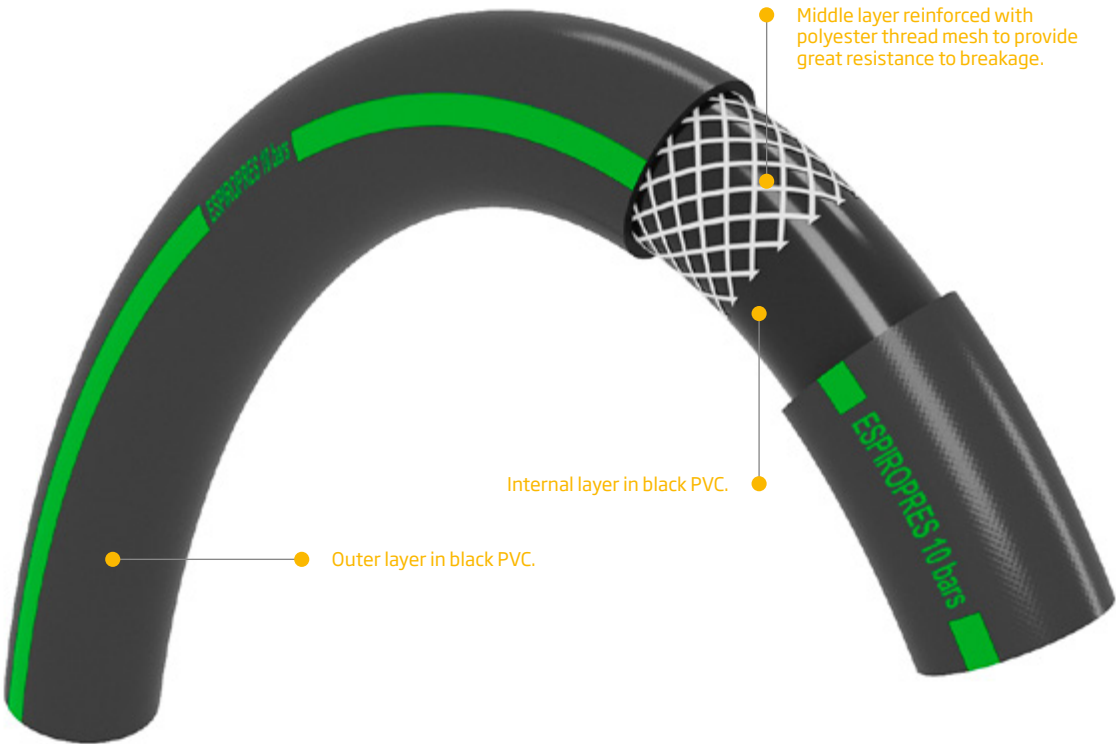


Espiopres® 10 bar

Multi-layer, plasticised PVC hose, reinforced with a polyester mesh. Specifically designed for medium-pressure compressed air equipment.

Applications

► Compressed air.



Features

- For industrial use and for the construction industry.
- Great flexibility and low permeability.
- Anti-knotting.
- Highly resistant to extension.
- Withstands temperatures between -10°C and 60°C.



INDUSTRIAL
USE



SPRAYS



EASY TO USE



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba

INT Ø mm	INT Ø in	EXT Ø mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar
6	1/4"	12	105	10	30
8	5/16"	14	130	10	30
10	3/8"	16	160	10	30
12	1/2"	18	180	10	30
16	5/8"	23	270	10	30
19	3/4"	27	365	10	30
25	1"	34	515	10	30

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

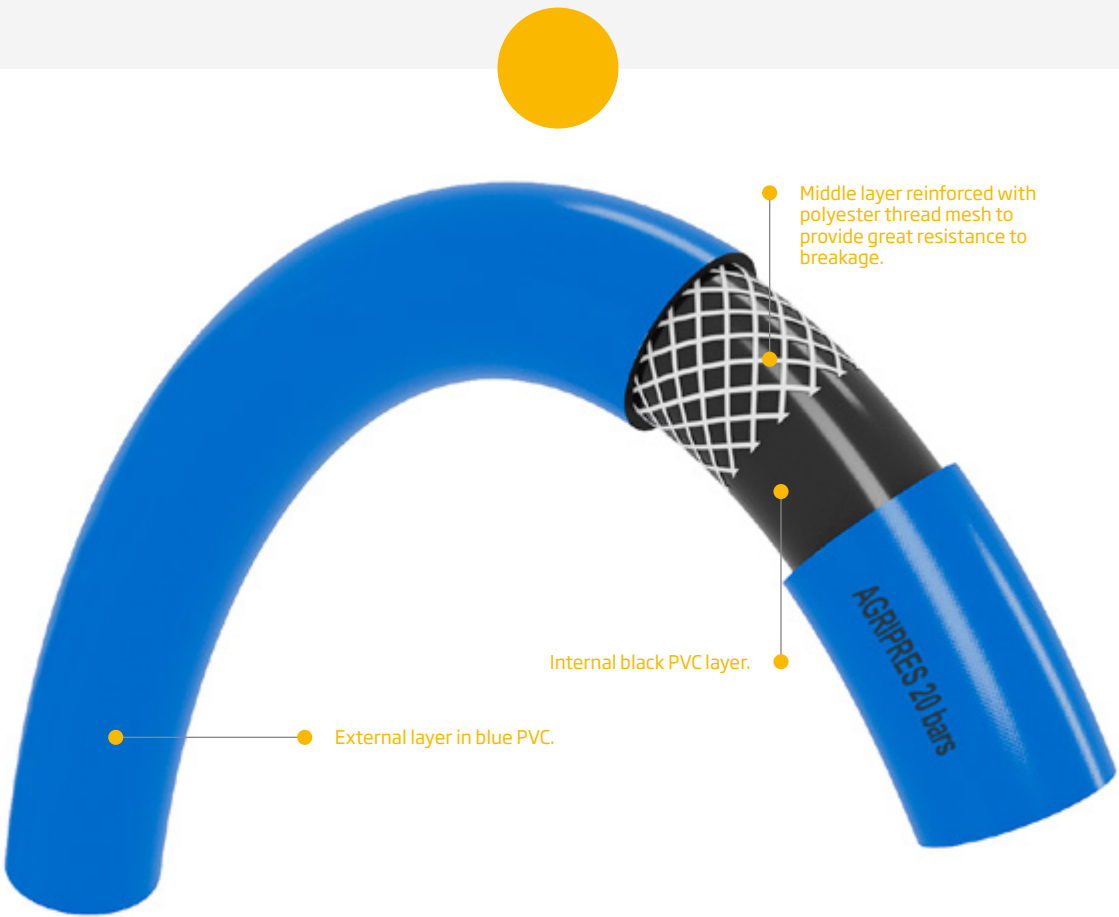


Agripres® 20 bar

Multi-layer, plasticised PVC hose, reinforced by a polyester mesh. Specifically for fumigation equipment.

Applications

► Agricultural fumigation.



Features

- For agricultural use.
- Great flexibility and low permeability.
- Anti-knotting.
- Highly resistant to extension.
- Highly resistant to the absorption of fertilisers and pesticides.
- Withstands temperatures between -10°C and 60°C.



AGRICULTURAL USE



SPRAYS



HIGH PRESSURES



EASY TO USE



HIGH QUALITY CONTROL



FREE FROM Cd / Pb / Ba

INT Ø mm	INT Ø in	EXT Ø mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar
6	1/4"	11	87	20	60
8	5/16"	13	105	20	60
10	3/8"	15	125	20	60
13	1/2"	19	185	20	60
16	5/8"	23	265	20	60
19	3/4"	26	305	20	60
25	1"	34	515	20	60

COLOURS AVAILABLE

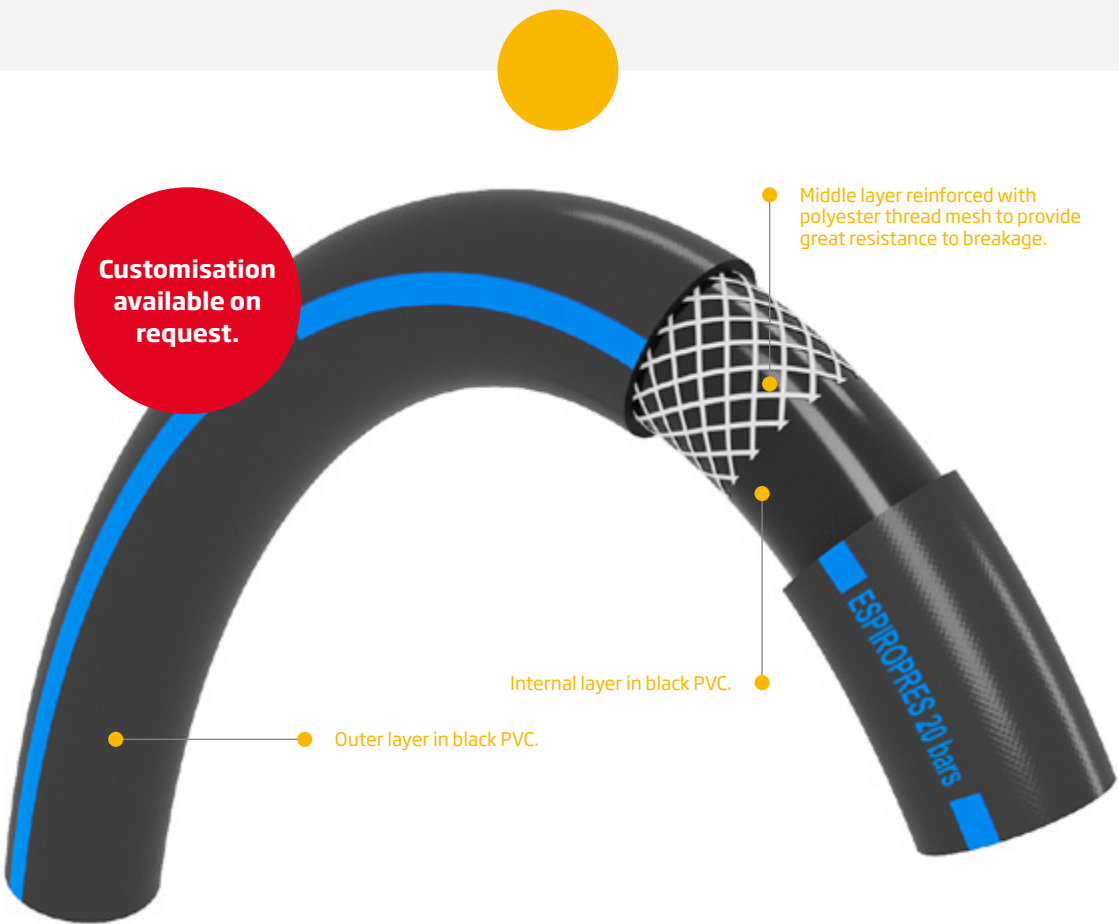
Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Espiopres® 20 bar

Multi-layer, plasticised PVC hose, reinforced by a polyester mesh.
Specifically designed for medium-pressure compressed air equipment.

Applications

► Compressed air, hydraulic hammers.



Features

- For industrial use and for the construction industry.
- Great flexibility and low permeability.
- Anti-knotting.
- Highly resistant to extension.
- Withstands temperatures between -10°C and 60°C.



INDUSTRIAL
USE



SPRAYS



EASY TO USE



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba

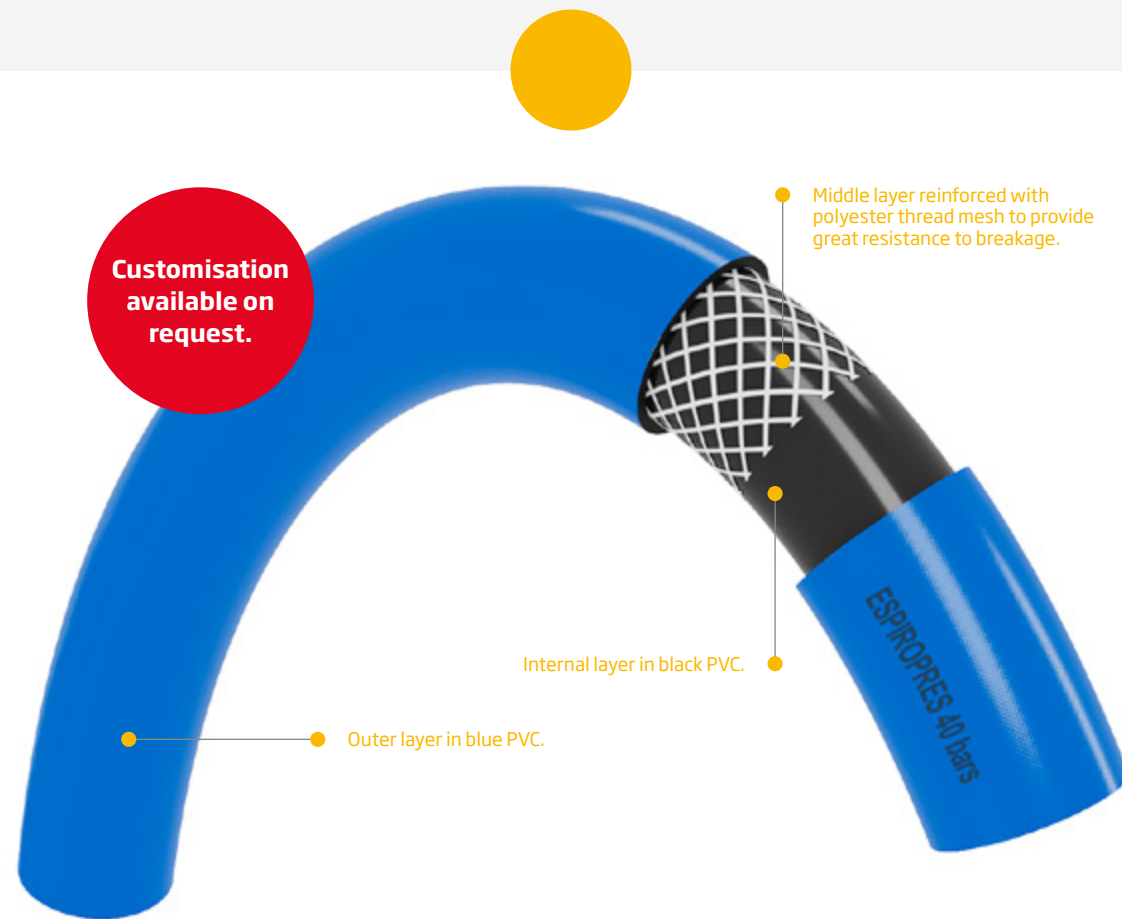
INT Ø mm	INT Ø in	EXT Ø mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar
6	1/4"	14	165	20	60
8	5/16"	16	200	20	60
10	3/8"	18	235	20	60
12	1/2"	21	310	20	60
16	5/8"	26	435	20	60
19	5/8"	29	490	20	60
25	1"	36	670	20	60

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters



Espiropres® 40 bar

Multi-layer, plasticised PVC hose, reinforced by a polyester mesh.
Specifically designed for medium-pressure compressed air equipment.



Features

- For agricultural and industrial use.
- Great flexibility and low permeability.
- Anti-knotting.
- Highly resistant to extension.
- Withstands temperatures between -10°C and 60°C.



AGRICULTURAL
USE



INDUSTRIAL
USE



SPRAYS



HIGH
PRESSURES



EASY TO USE



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba

Applications

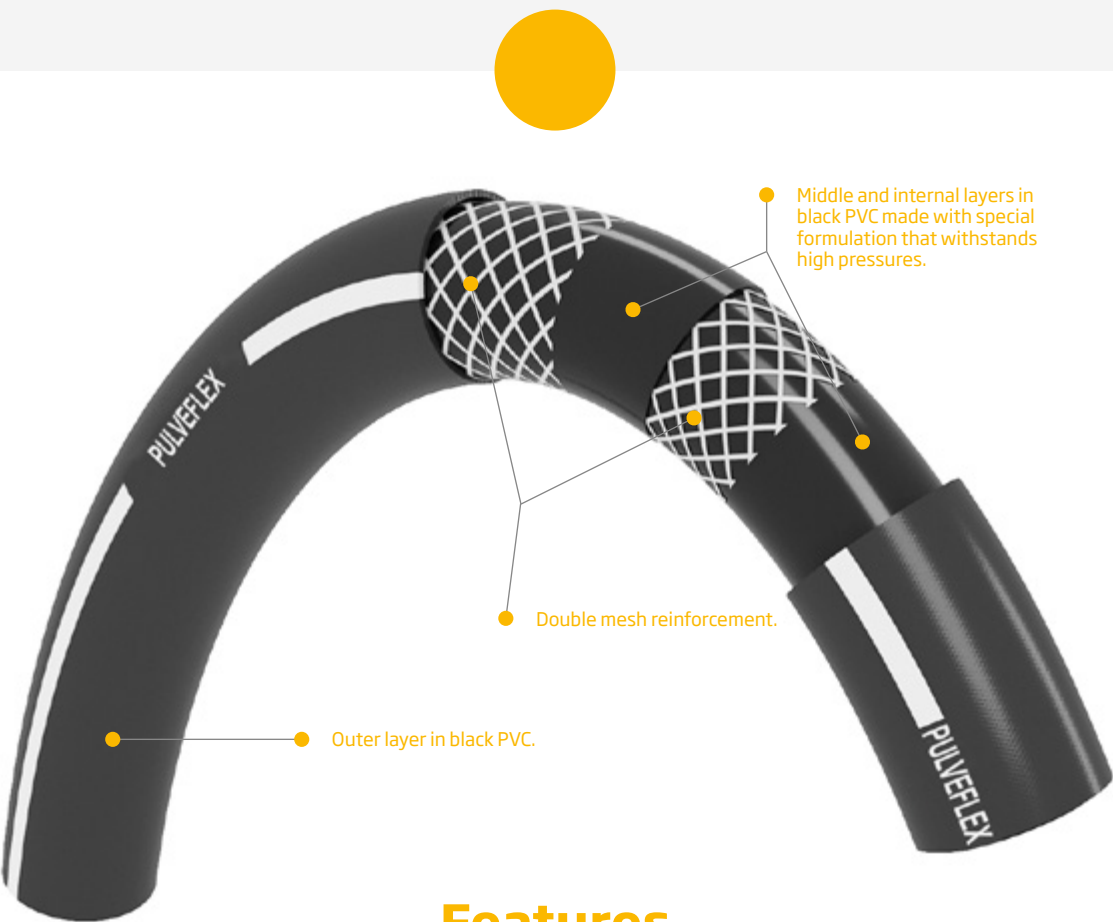
- ▶ Pressure spraying of insecticides and antiparasitic treatments in agricultural uses.
- ▶ Pressurised liquid transport.
- ▶ Compressors.

INT Ø mm	INT Ø in	EXT Ø mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRES- SURE bar	BENDING Ø mm	COLOURS AVAILABLE
8	5/16"	15	160	40	120	25	
10	3/8"	16	150	40	120	30	
12	1/2"	19	254	40	120	35	
16	5/8"	24	315	40	120	60	
19	5/8"	27	360	40	120	75	
25	1"	35	585	40	120	110	

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Pulveflex® 80 bar

PVC hose with double polyester fibre reinforcement and manufactured using patented SINE TORSION technology that prevents the hose from twisting when used at high pressures. Specially designed for agricultural fumigation at high pressures. Installation in agricultural sanitary machinery: agricultural atomisers, nebulisers and sprayers.



Features

- For industrial use and for the construction industry.
- SINE TORSION TECHNOLOGY SYSTEM: patented technology that prevents the usual kinks from happening when twisted on itself in use at maximum pressure.
- Great flexibility and low permeability.
- Equipped with a double layer of polyester mesh.
- Anti-knotting.
- Highly resistant to extension.
- Withstands temperatures between -10°C and 60°C.



Applications

- ▶ Installation in agricultural sanitary machinery: agricultural atomisers, nebulisers and sprayers.
- ▶ Piping of liquids at high pressures.
- ▶ Compressors.

INT Ø mm	INT Ø in	EXT Ø mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar
8	5/16"	15	170	80	240
10	3/8"	17	190	80	240
12	1/2"	20	270	80	240
16	5/8"	26	445	80	240
19	3/4"	30	535	80	240

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Espiopres® 20 bar
Rubber

20 bar pressure hose made of nitrile rubber and PVC with special resistance to industrial oils



Features

- Industrial use.
 - Great flexibility and high resistance to breakage due to elongation.
 - Specially designed for the transfer of gasoline and its derivatives.
- Good chemical resistance, associated with the PVC resistance table.
 - The recommended temperature for use is between -10 °C and 60 °C.



INDUSTRIAL
USE



RESISTANT TO
HYDROCARBONS



CONSTRUCTION



LIGERA



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba

Applications

- Compressed air, pneumatic hammer, pneumatic drill.

INT Ø mm	INT Ø in	Ø EXT mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar
6	11/64"	12	114	20	60
8	13/64"	15	170	20	60
10	1/4"	17	200	20	60
13	9/32"	21	285	20	60
16	5/16"	25	390	20	60
19	19	29	505	20	60
25	19	36	705	20	60

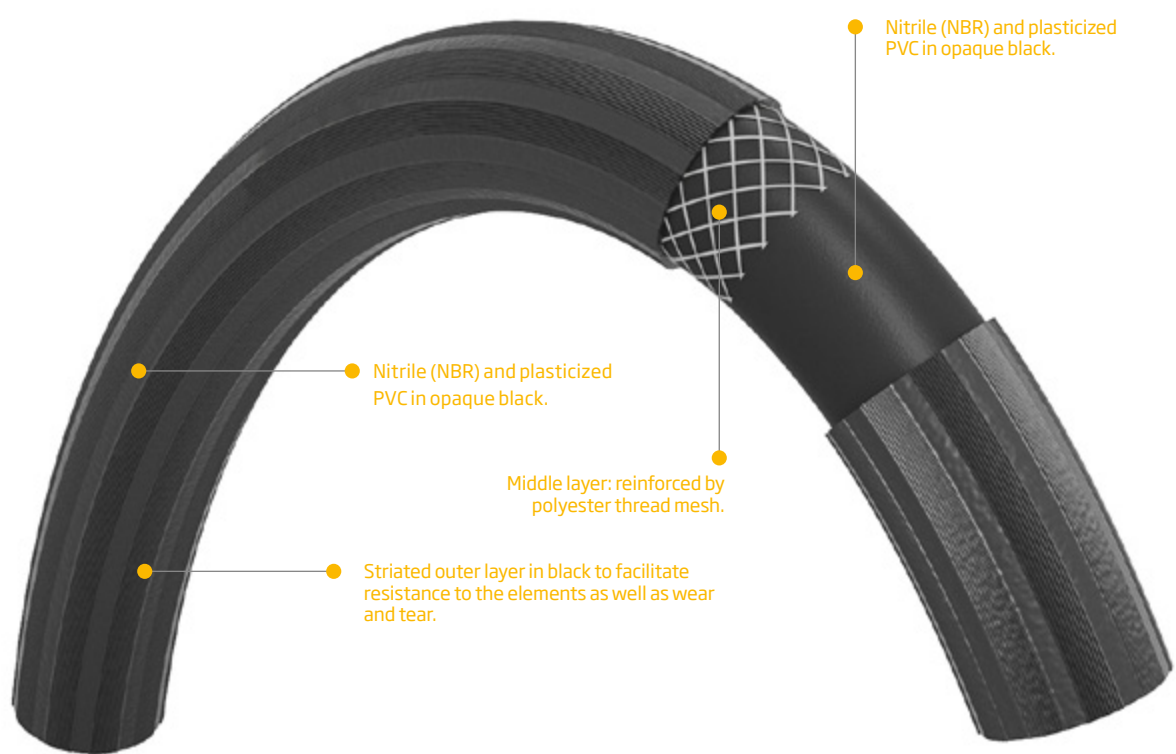
Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Espirocord® Rubber

Hose manufactured by extrusion of rubber compounds and vinyl resin, with mesh of polyester threads.

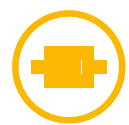
Applications

- ▶ Construction.
- ▶ Irrigation and sprinkling in general, gardening, horticulture and floriculture.

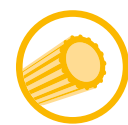


Features

- Hose reinforced inside by a polyester mesh to withstand considerable pressure and provide it with resistance to breakage in elongation.
- Non-toxic.
- Very flexible and manageable.
- Externally ribbed and black in color to facilitate resistance to atmospheric agents and wear.
- Withstands temperatures between -20 °C and 75 °C.



CONSTRUCTION



STRIATED



HIGH PRESSURES



EASY TO USE



HIGH QUALITY CONTROL



FREE FROM CD / PB / BA

ø INT mm	ø INT in	ø EXT mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar
8	5/8"	13	105	20	60
10	3/8"	16	160	20	60
12	1/2"	18	180	20	60
15	5/8"	21	220	16	48
19	3/4"	26	320	16	48
25	1"	33	470	10	30

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

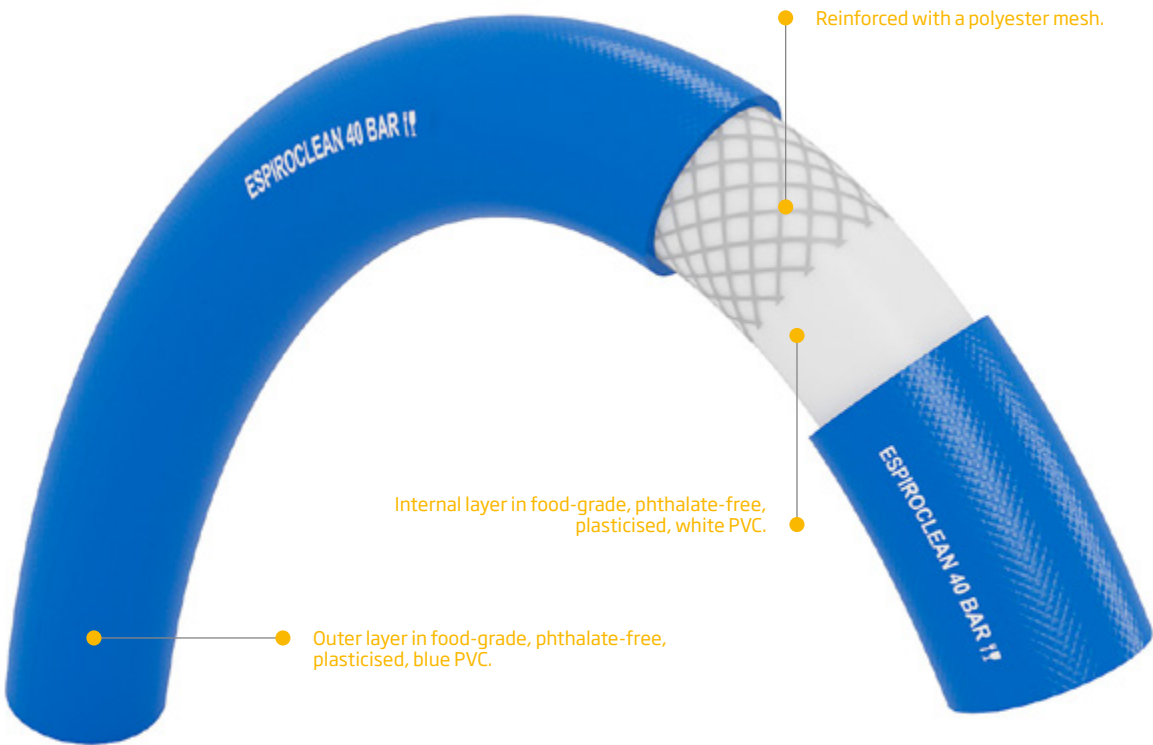


Espiroclean® 40 bar

Multi-layer, plasticised PVC hose, reinforced with a polyester mesh.
Specifically designed for medium-pressure compressed air equipment

Applications

- ▶ Cleaning of industrial food and catering facilities. Designed to withstand medium pressures.



Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011 (see declaration of conformity).
- Highly flexible, anti-knotting and highly resistant to extension.
- Good chemical resistance associated with PVC's resistance chart.
- Withstands temperatures between -10°C and 80°C.



INDUSTRIAL
USE



FOOD
USE



POLYESTER
REINFORCEMENT



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba



PHthalate - FREE



INT Ø mm	INT Ø in	EXT Ø mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar
12	1/2"	20	245	40	120
16	5/8"	24	310	40	120
19	3/4"	28	390	40	120
25	1"	34	515	40	120

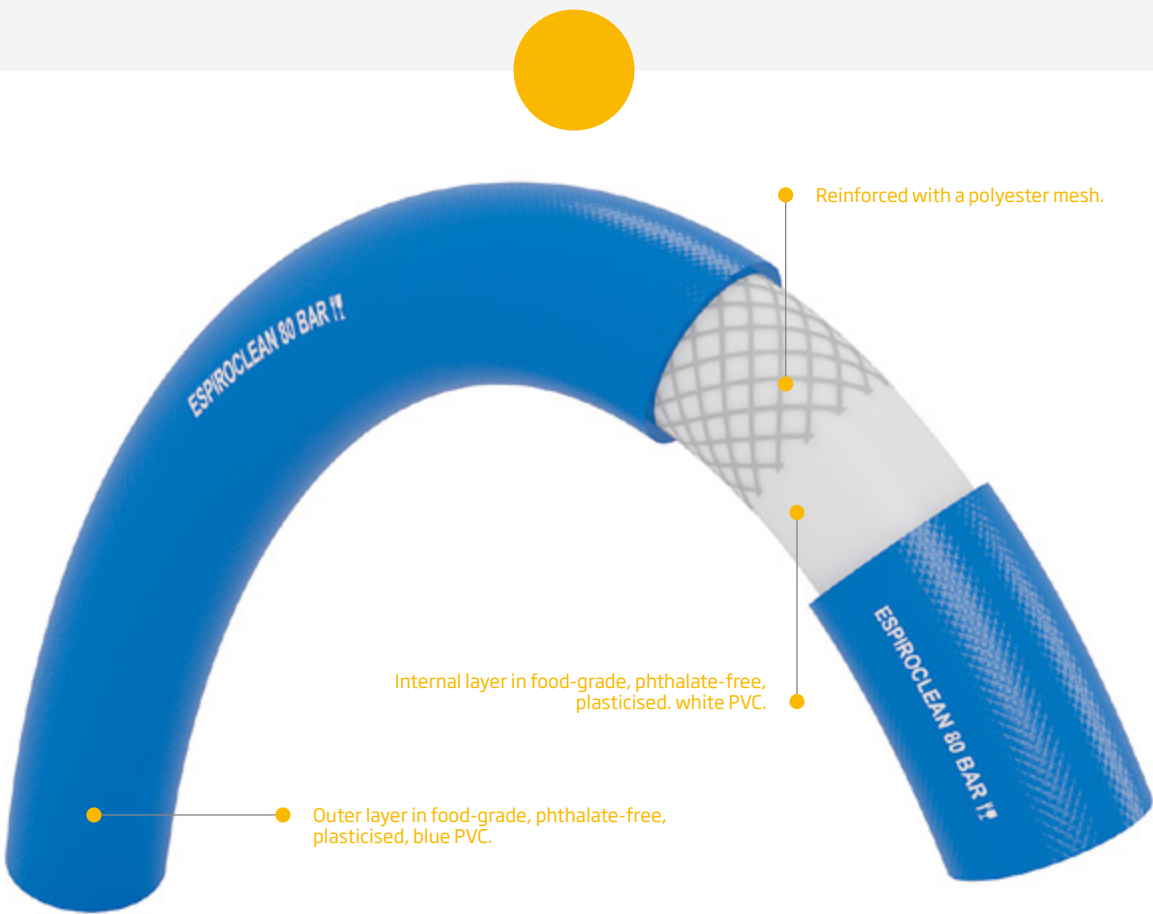
Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Espiroclean® 80 bar

Multi-layer, plasticised PVC hose, reinforced with a double polyester mesh.
Specifically designed for high-pressure compressed air equipment.

Applications

► Cleaning of industrial food and catering facilities. Designed to withstand medium pressures.



Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011 (see declaration of conformity).
- Highly flexible, anti-knotting and highly resistant to extension.
- Double mesh reinforcement to withstand high pressure.
- Good chemical resistance associated with PVC's resistance chart.
- Withstands temperatures between -10°C and 80°C.



INDUSTRIAL
USE



FOOD
USE



5 LAYERS



HIGH
PRESSURES



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba

ø INT mm	INT ø in	ø EXT mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar
12	1/2"	22	325	80	240

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

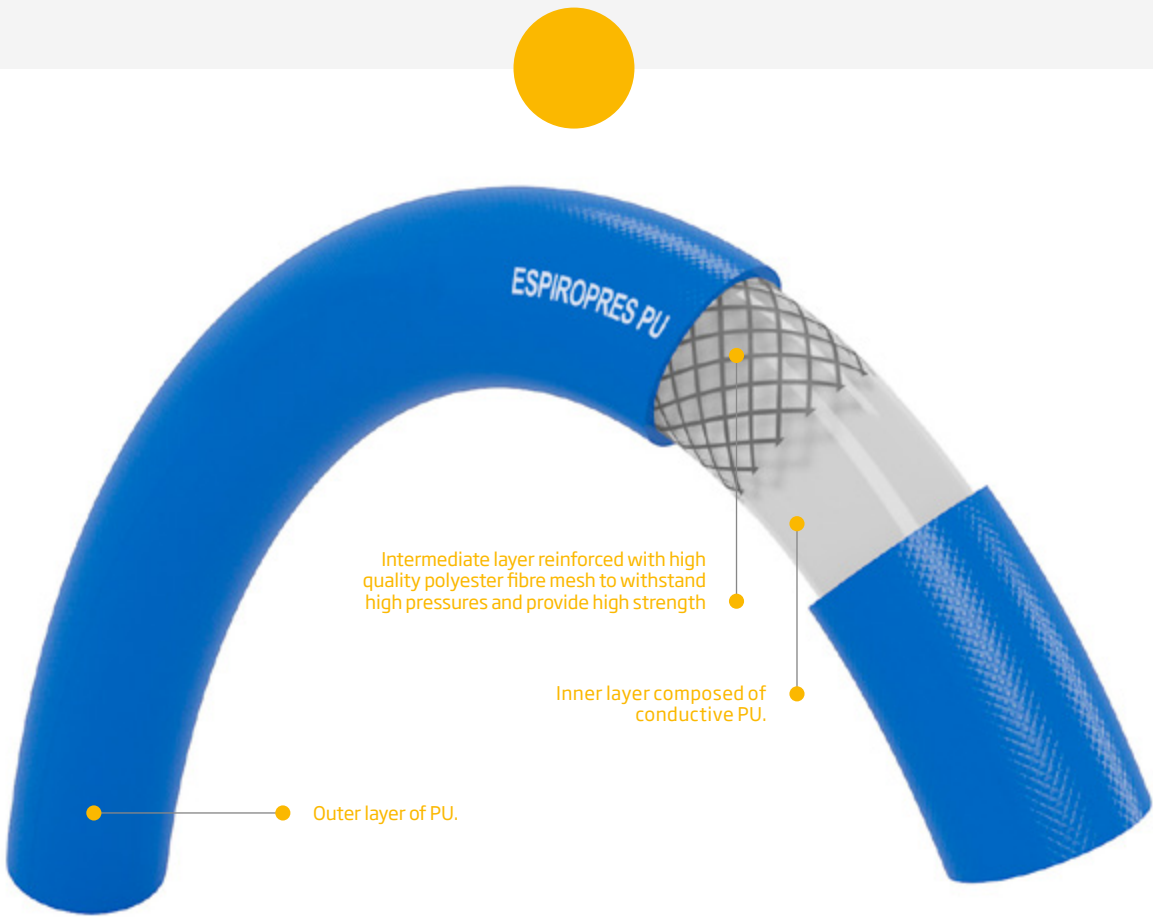


Espiopres® PU

Pressure hose made of polyurethane (PU) with textile reinforcement for industrial robotics, silicone free.

Applications

► Compressed air, pneumatics, airbrushes, cooling circuits, paint gun, sandblasting and abrasive material suction.



Features

- PU tube reinforced with polyester thread.
- Very light and flexible even at low temperatures.
- High resistance to abrasion, hydrolysis and microorganisms.



FOOD USE



INDUSTRIAL USE



HIGH PRESSURES



HIGH QUALITY CONTROL



FREE FROM Cd / Pb / Ba



TEMPERATURA -15 °C / 60 °C



SPRAYS



ANTIABRASIF

ø INT mm	ø INT in.	ø EXT mm	WEIGHT g/m	OPERATING PRESSURE bar	PRESSURE BURST PRESSURE bar	BENDING RADIUS mm
6	1/4"	10	65	20	60	20
8	5/16"	12	85	20	60	22
9.7	3/8"	13.7	90	20	60	35
10	3/8"	15	130	20	60	38
10	3/8"	19	140	20	60	50
13	1/2"	19	195	20	60	55
16	5/8"	23	250	20	60	60

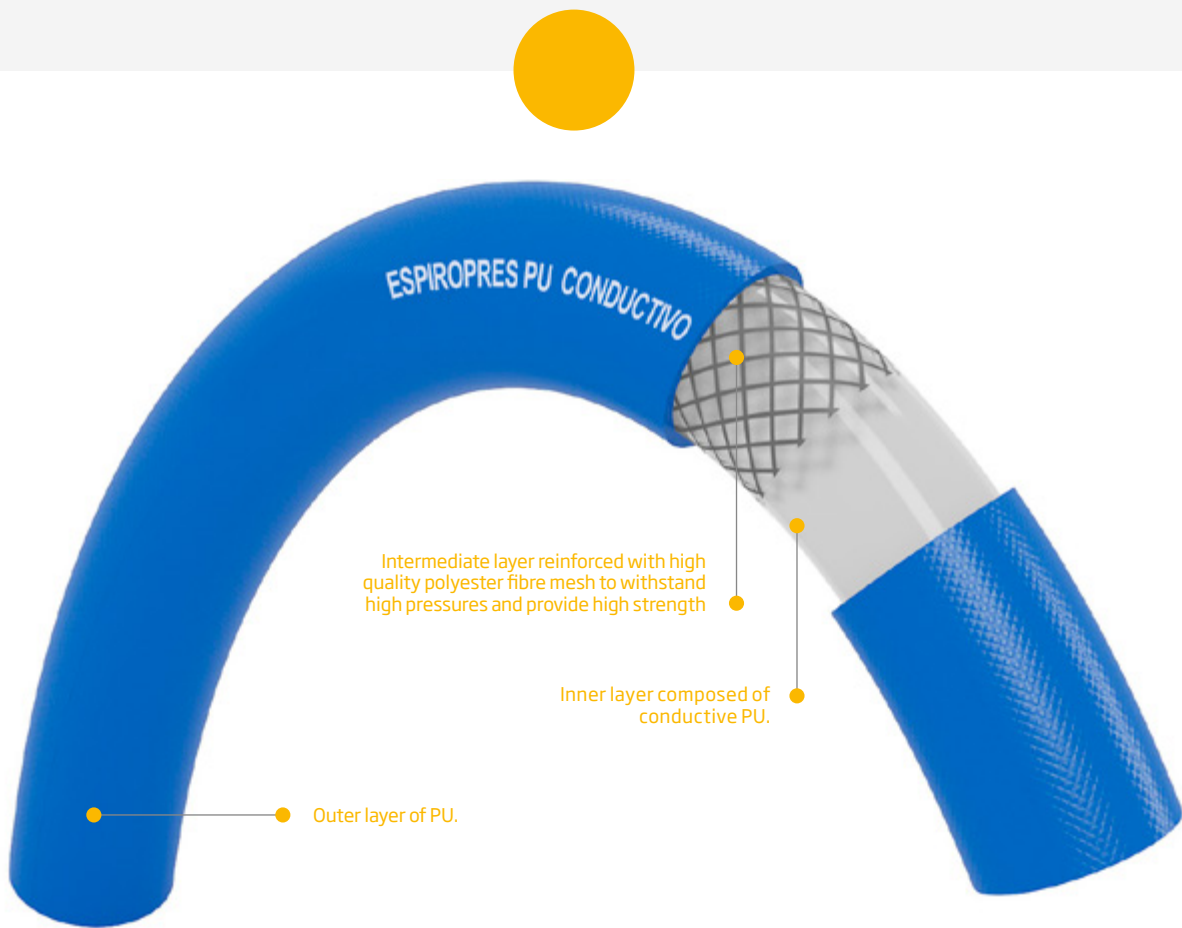
Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Espiopres® PU
Conductivo

Reinforced anti-abrasive polyurethane (PU) and thermoplastic rubber compound hose with polyester fiber, used in machinery regulated by ATEX regulations, for tools pneumatics in general, airbrushes and paint guns.

Applications

► Machinery regulated by ATEX regulations for pneumatic tools in general, airbrushes and paint guns.



Features

- PU tube reinforced with polyester thread.
 - Very light and flexible even at low temperatures.
- High resistance to abrasion, hydrolysis and microorganisms.



TRANSPORT OF CHEMICALS



INDUSTRIAL USE



EASY TO USE



HIGH PRESSURES



HIGH QUALITY CONTROL



SPRAYERS



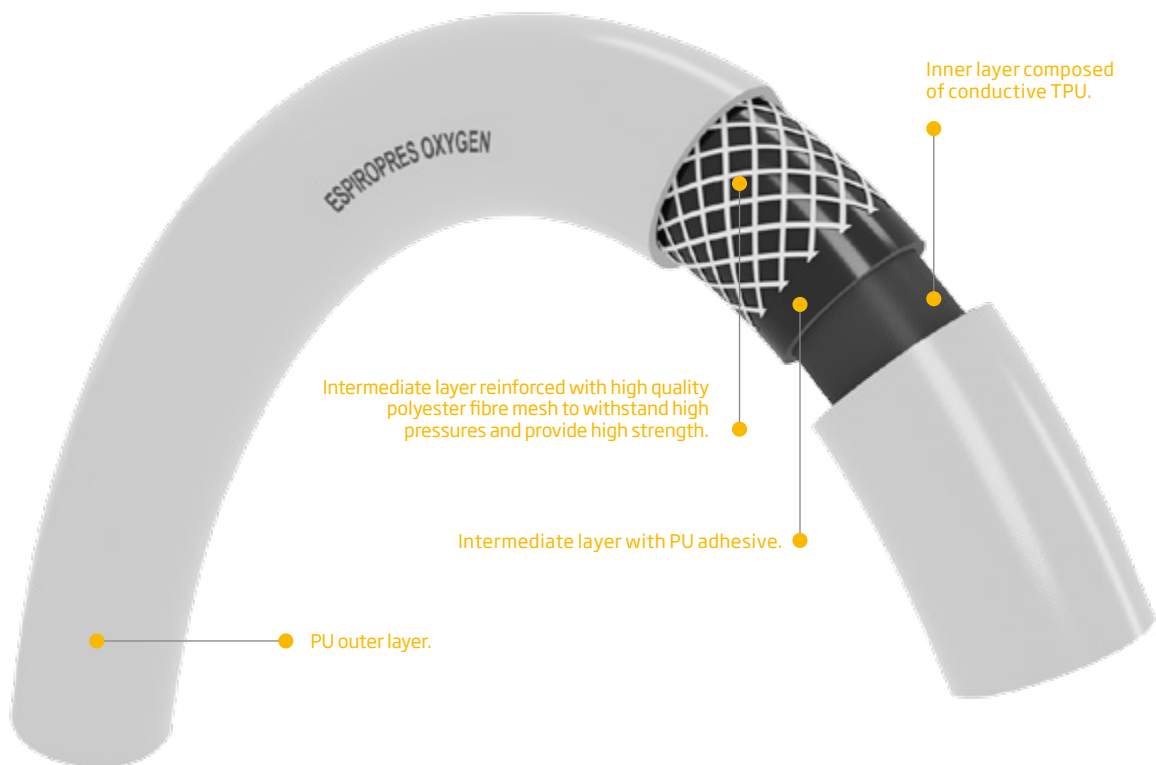
ANTI-ABRASION

ø INT mm	ø INT in.	ø EXT mm	WEIGHT g/m	OPERATING PRESSURE bar	PRESSURE BURST PRESSURE bar	BENDING RADIUS mm
6	1/4"	10	65	20	60	20
8	5/16"	12	85	20	60	22
9.7	3/8"	13.7	90	20	60	35
10	3/8"	15	130	20	60	38
10	3/8"	19	140	20	60	50
13	1/2"	19	195	20	60	55
16	5/8"	23	250	20	60	60

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Espiopres® Oxygen

PVC hose with conductive TPU inner layer, reinforced with polyester mesh and a PU adhesive interlayer, for low pressure delivery and light suction of gas in medical equipment supply systems. Suitable for conveying air, oxygen, nitrogen oxide, helium and carbon dioxide. Manufactured in accordance with the requirements of ISO 5359.



Features

- Reinforced hose to avoid crushing.
- Antistatic property.
- High temperature resistance



ANTI-ABRASION



INDUSTRIAL USE



TRANSPORT OF CHEMICALS



SIN FLATATOS



HIGH QUALITY CONTROL



FREE FROM CD / PB / BA



EASY TO USE

Applications

- ▶ Nuclear power plants.
- ▶ Petrochemicals.
- ▶ Application of paint in construction and industry.
- ▶ Asbestos removal and rehabilitation of premises.

Ø INT mm	Ø INT in.	Ø EXT mm	WEIGHT g/m	OPERATING PRESSURE bar	PRESSURE BURST PRESSURE bar	BENDING RADIUS mm
6	1/4"	10	65	20	60	20
8	5/16"	12	85	20	60	22
9.7	3/8"	13.7	90	20	60	35
10	3/8"	15	130	20	60	38
10	3/8"	19	140	20	60	50
13	1/2"	19	195	20	60	55
16	5/8"	23	250	20	60	60

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters



R.I.A.®

Flexible, multi-layer hose with a reinforced, braided, polyester thread interior to be used in fire extinguishers.
Manufactured in accordance with EN 694.

Applications

► Hoses for fire extinguishers with water or dry chemical extinguishing agents.



Features

- Product certified by the French quality association AFNOR in line with NF021 certification protocol.
- Hose especially for fire extinguishing equipment manufactured in accordance with EN 694.
- Temperature range between -20°C and 60°C.



INDUSTRIAL
USE



HIGH
PRESSURES



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba



Ø INT mm	INT Ø in	Ø EXT mm	WEIGHT g/m	OPERATING PRESSURE bar	PRESSURE BURST PRESSURE bar
19	¾"	26	315	12	42
25	1"	32	440	12	42
33	1 5/16"	41	670	7	24,5

COLOURS
AVAILABLE



Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

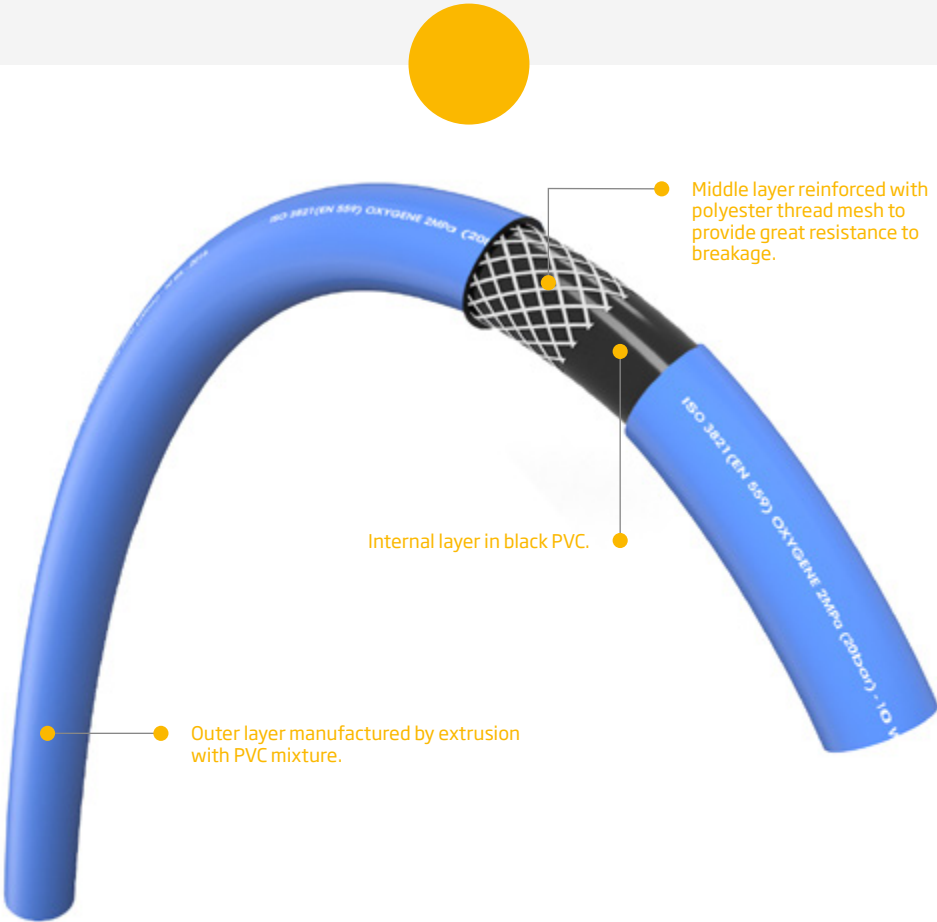


Oxygen

Multi-layer, flexible PVC hose, reinforced with polyester mesh. Specifically for conducting oxygen in welding equipment.

Applications

▶ Conducting oxygen and acetylene for welding.



Features

- For industrial use.
- Highly flexible and easy to handle.
- Highly resistant to breakage when extended.
- Highly resistant to traction (7.5 MPa) and pressure at high temperatures.
- Good chemical resistance associated with PVC's resistance chart.
- Recommended temperature for use between -10°C and 60°C.
- Rubber option.



INDUSTRIAL USE



HIGH PRESSURES



EASY TO USE



HIGH QUALITY CONTROL



FREE FROM Cd / Pb / Ba

INT Ø mm	INT Ø in	EXT Ø mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar
8	5/16"	15	160	20	60
10	3/8"	17	170	20	60

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters



Acetylene

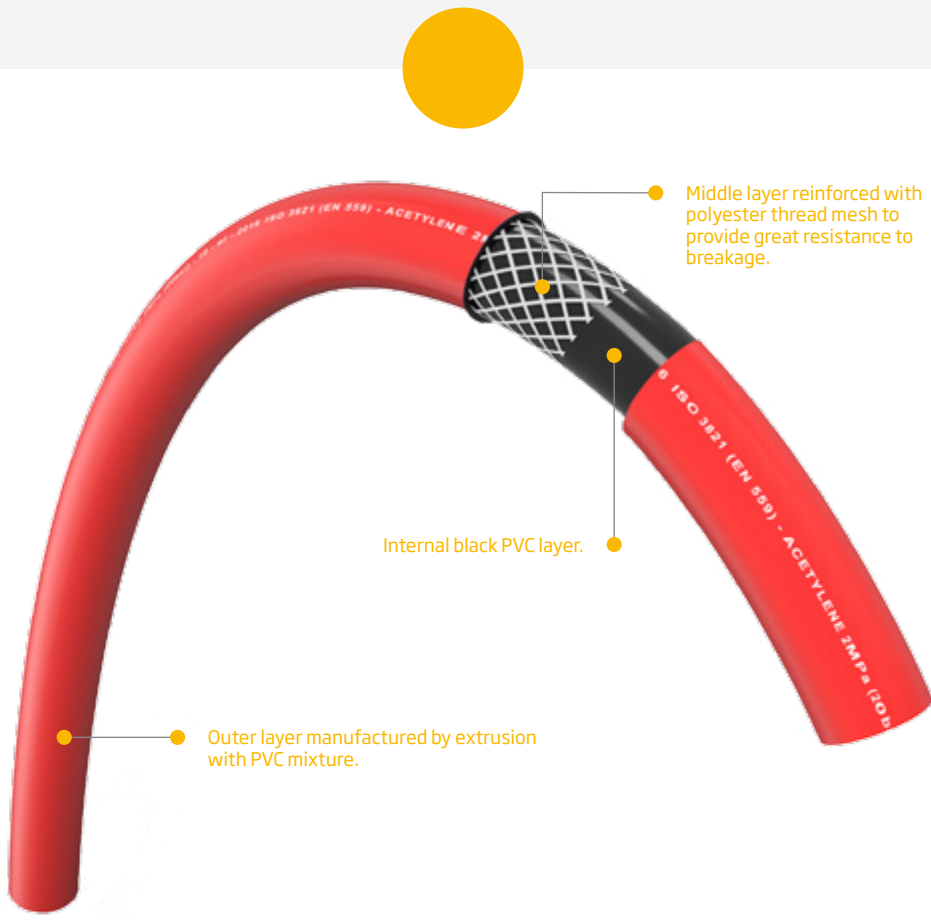
Multi-layer, flexible PVC hose in red, reinforced with a polyester mesh. Specifically for conducting acetylene in welding equipment.

Applications

▶ Conducting oxygen and acetylene for welding.

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ACETYLENE



Features

- For industrial use.
- Highly flexible and easy to handle.
- Highly resistant to breakage when extended.
- Highly resistant to traction (7.5 MPa) and pressure at high temperatures.
- Good chemical resistance associated with PVC's resistance chart.
- Recommended temperature for use between -10°C and 60°C.
- Rubber option.



HIGH PRESSURES



EASY TO USE



HIGH QUALITY CONTROL



FREE FROM Cd / Pb / Ba



213

ACETYLENE

INT Ø mm	INT Ø in	EXT Ø mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar
8	5/16"	15	160	20	60
10	3/8"	17	170	20	60

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

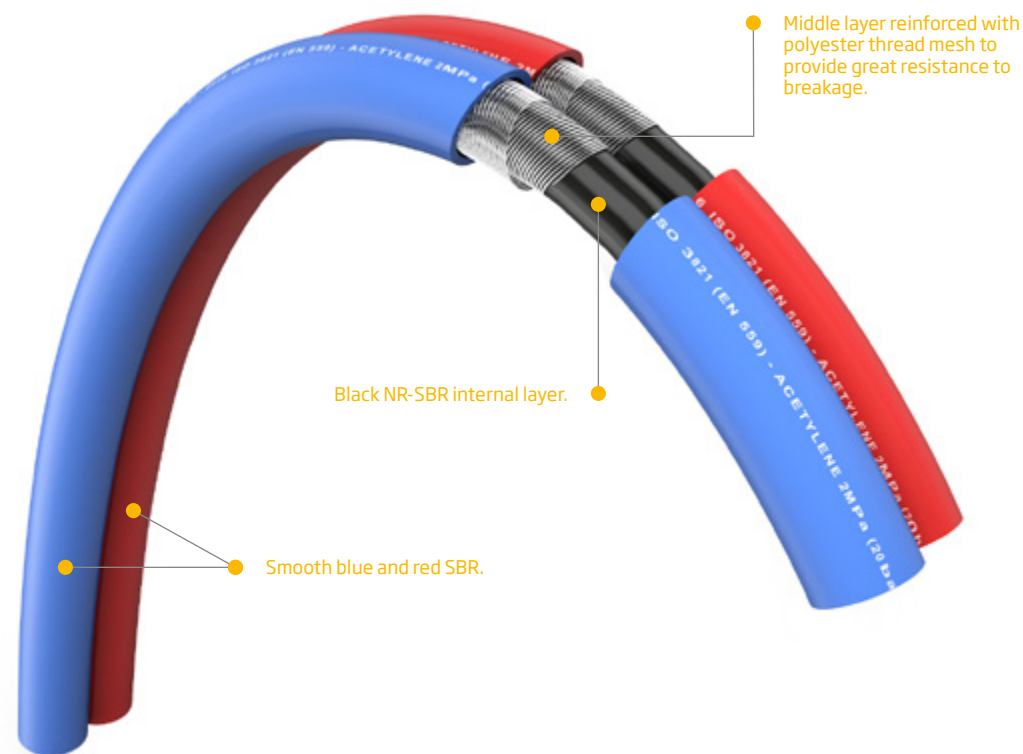


Bitubo

Very light and flexible double rubber hose manufactured via continuous manufacturing. Manufactured according to our own specifications and in line with EN 559.

Applications

► Designed especially for welding tasks, oxy-fuel welding and cutting, and similar industry techniques, shipbuilding and construction.



Features

- Made of smooth, black EPDM/SBR, reinforced by synthetic, high-tenacity thread.
- Guarantees perfect adherence thanks to collective extrusion.
- Resistant to abrasion.
- Smooth or striated red or blue surface.
- Withstands temperatures between -25°C and 100°C.



INDUSTRIAL
USE



CHEMICAL
TRANSPORT

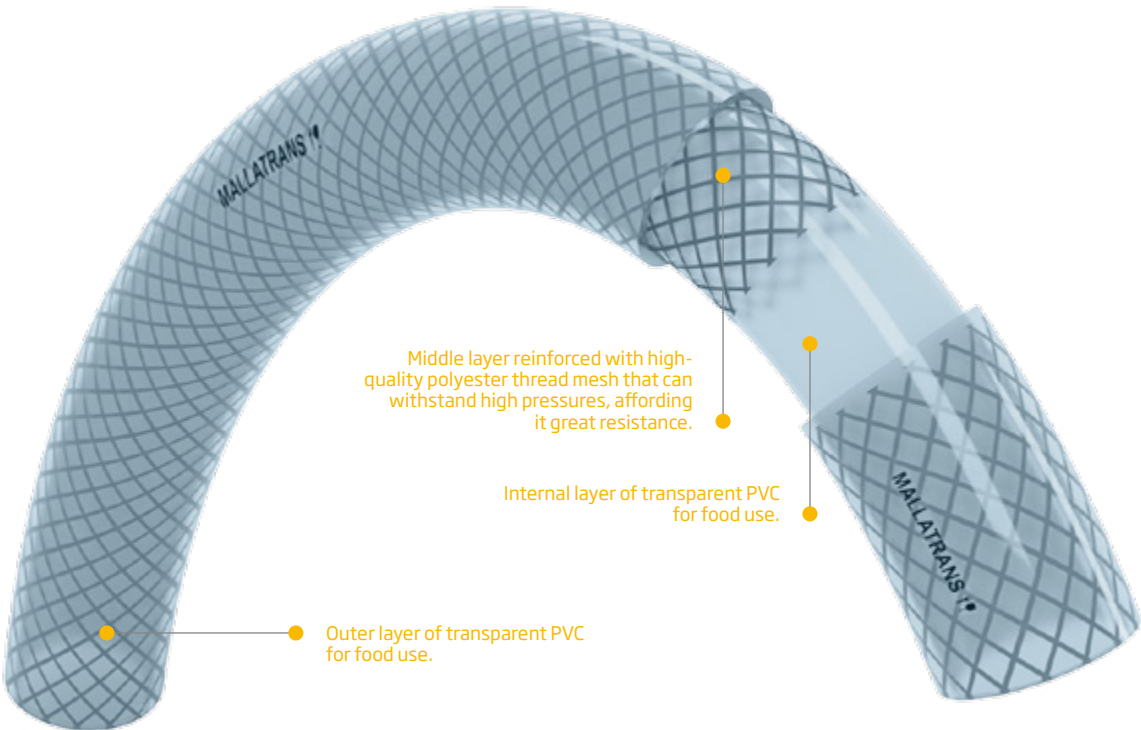
INT Ø mm	INT Ø in	EXT Ø mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar
6+6	1/4" + 1/4"	12+12	26	10/20	30/60
8+9	5/16" + 3/8"	16+16	44	10/20	30/60

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters



Mallatrans®

Multi-layer, transparent, plasticised PVC hose, reinforced by a polyester mesh. Especially designed for the transfer of liquid food products.



Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011 (see declaration of conformity).
- Highly flexible and easy to handle.
- Good chemical resistance associated with PVC's resistance chart.
- Highly flexible, high-quality hose internally reinforced by a polyester mesh that can withstand considerable working pressures, affording it resistance to breakage when extended.
- Recommended temperature for use between -10°C and 60°C.



FOOD USE



INDUSTRIAL USE



EASY TO USE



LIGHT



HIGH QUALITY CONTROL



FREE FROM Cd / Pb / Ba

Applications

- ▶ Transfer of liquid food products that require food simulants A, B, C and D1 in OM2 conditions in accordance with Regulation EU 10/2011, such as wine, must, beer, vinegar and alcoholic liquids up to 20%.
- ▶ Food product processing industry.
- ▶ Compressed air industrial facilities.

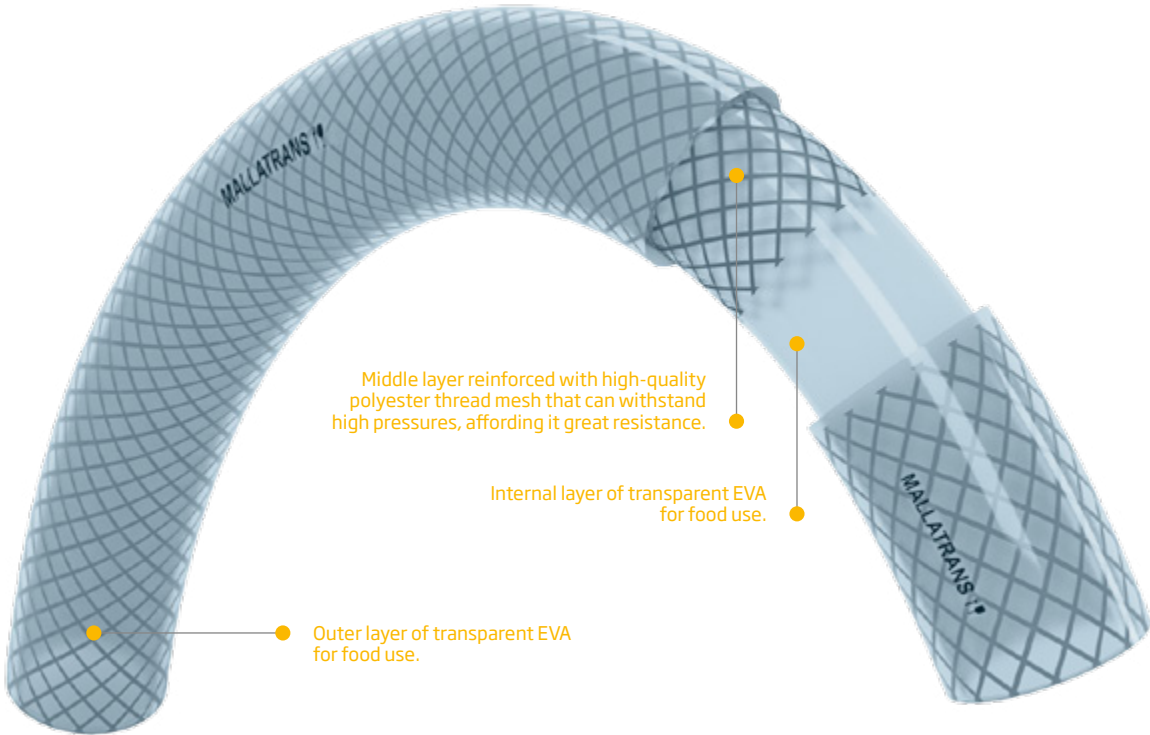
INT Ø mm	INT Ø in	EXT Ø mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	COLOURS AVAILABLE
6	1/4"	11	83	15	45	15	
8	5/16"	11	55	15	45	20	
10	3/8"	14	93	15	45	30	
12	1/2"	15	80	15	45	35	
15	5/8"	22	260	15	45	45	
19	5/8"	25	260	10	30	75	
20	3/4"	26	275	10	30	80	
25	1"	31	330	10	30	110	
30	1" 1/4	40	680	7	21	160	
40	1" 5/8	52	1075	6	18	250	
51	2"	60	1075	5	15	290	

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters



Mallatrans® EVA

Hose manufactured by extruding polyethylene components. Internally reinforced with a highly-resistant, polyester thread mesh.



Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011.
- Highly resistant to breakage when extended.
- Highly flexible and easy to handle.
- Free from halogens.
- Transparent so the materials transported are always visible.
- Hose with good chemical resistance associated with polyethylene's usual properties.
- Withstands temperatures between -10°C and 60°C.



FOOD USE



INDUSTRIAL USE



AGRICULTURAL USE



HIGH PRESSURES



HIGH QUALITY CONTROL



FREE FROM Cd / Pb / Ba

Applications

- ▶ Transfer of liquid food products that require food simulants A, B and C in OM2 conditions in accordance with Regulation EU 10/2011, such as wine, must, beer, vinegar and alcoholic liquids up to 20°.
- ▶ Food product processing industry.
- ▶ Drink dispensers.

INT Ø mm	INT Ø in	EXT Ø mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm
6	1/4"	12	104	20	60	25
7	9/32"	14	142	20	60	30
8	5/16"	14	128	15	45	30
10	3/8"	16	148	15	45	35

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters



Swimming pool Construction

Pages 222 - 245

Swimming pool Construction



Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features.

Hidrotubo®

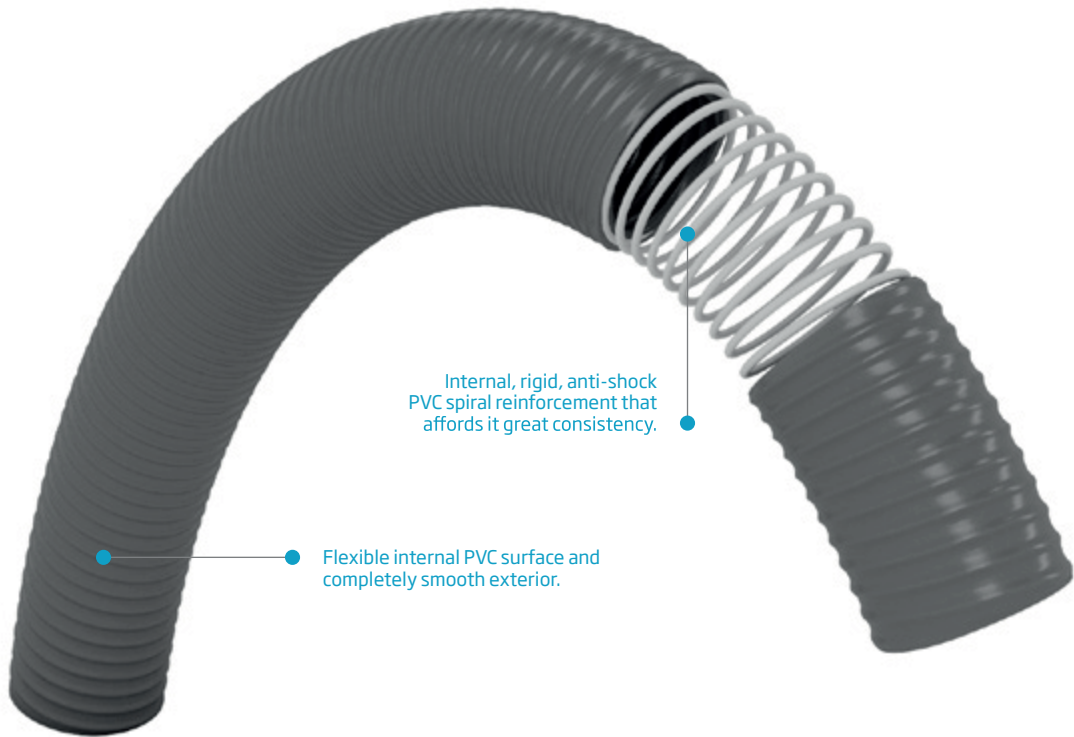
Flexible, reinforced hose with rigid, anti-shock PVC spiral, manufactured in accordance with UNE-EN ISO 3994.

Applications

► Discharge, hydro-sanitary piping, swimming pool filtration systems, hydro-massage bathtubs, drains, condensation and air conditioning facilities.

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HIDROTUBO®



Features

- For industrial, sanitary and special use in swimming pools.
- Smooth internal and external surfaces. Highly flexible and light.
- External diameters adjusted to ensure easy assembly on PVC fittings with adhesive and PVC with elastic seal, as well as PP fittings.
- Hermetically sealed and resistant at joint up to pressure of 30 bar.
- Good chemical resistance associated with PVC's resistance chart.
- Great resistance to waste water and chlorinated swimming pool water.
- Withstands temperatures between -10°C and 60°C.
- Hose with AENOR N MARK product certification in accordance with UNE-EN ISO 3994, category T2.



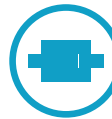
USE
IN POOLS



SANITARY
USE



INDUSTRIAL
USE



CONSTRUCTION



TEMPERATURE
-10°C TO 60°C



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba

INT Ø mm	INT Ø in	EXT Ø mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O
13	1/2"	16	100	7	22	39	9
16	5/8"	20	155	7	22	48	9
20	3/4"	25	240	7	22	60	9
25	1"	32	400	7	22	75	9
26	1"	32	370	5	15	78	9
27	1"	32	334	5	15	81	9
34	1" 3/8	40	480	5	15	102	9
35	1" 3/8	40	400	5	15	105	9
42	1" 3/4	50	710	5	15	126	9
43	1" 3/4	50	685	5	15	129	9
55	2" 1/8	63	1000	5	15	165	9
65	1" 1/2	75	1400	4	12	195	9
80	3" 1/8	90	1800	4	12	240	9
100	4"	110	2200	3	9	300	9
110	4" 5/16	125	3700	3	9	330	9



Diameters with
Afnor certificate

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

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HIDROTUBO®

ESPIROFLEX. MANUFACTURE OF FLEXIBLE HOSES

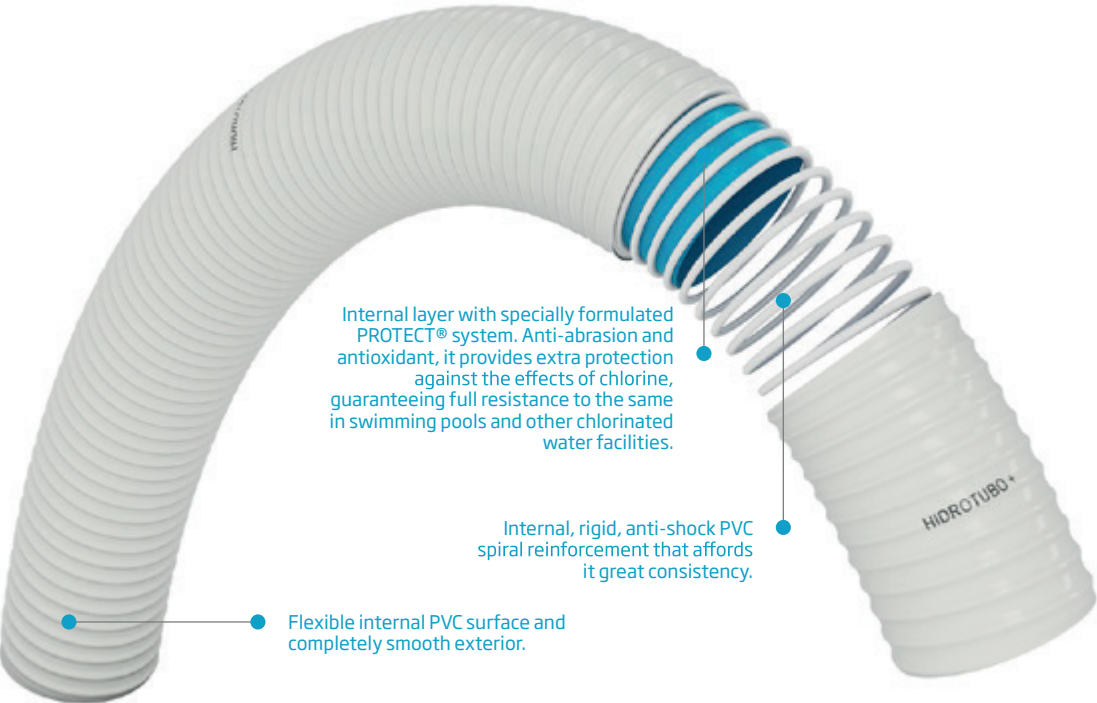


Hidrotubo® Plus

Flexible, reinforced PVC hose with rigid, anti-shock PVC spiral, manufactured in accordance with UNE-EN ISO 3994 and with an internal, specially formulated layer (PROTECT®) to withstand oxidation and abrasion caused by water with a high chlorine concentration.

Applications

- ▶ Discharge, hydro-sanitary piping, swimming pool filtration systems with a high chlorine content, hydro-massage bathtubs.



Internal layer with specially formulated PROTECT® system. Anti-abrasion and antioxidant, it provides extra protection against the effects of chlorine, guaranteeing full resistance to the same in swimming pools and other chlorinated water facilities.

Internal, rigid, anti-shock PVC spiral reinforcement that affords it great consistency.

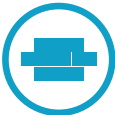
Flexible internal PVC surface and completely smooth exterior.

Features

- For industrial use and special use in swimming pools.
- Smooth internal and external surfaces. Highly flexible and light.
- PROTECT® internal surface, made from a material that grants it greater resistance to chlorinated products and abrasion.
- Rigid spiral with an ovate cross-section that provides greater resistance to compression.
- External diameters adjusted for easy assembly on PVC and PE seal fittings.
- Hermetically sealed and resistant at joint up to pressure of 30 bar.
- Withstands temperatures between -10°C and 60°C.
- Hose with good chemical resistance associated with PVC's usual properties.
- Great resistance to waste water and chlorinated swimming pool water with a high level of chlorination (> 3500 ppm).
- Hose with AENOR N MARK product certification in accordance with UNE-EN ISO 3994.



USE
IN POOLS



CONSTRUCTION



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba

INT Ø mm	INT Ø in	EXT Ø mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O
42	1" 3/4	50	710	5	15	126	9
55	2" 1/8	63	1000	5	15	165	9



Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Hidrotubo® Especial Termitas

Hose manufactured via the co-extrusion of flexible, blue PVC with a rigid, anti-shock PVC spiral in accordance with UNE-EN ISO 3994, with protection against termite attacks.

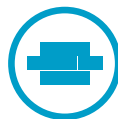


Features

- For industrial and sanitary use.
- The flexible PVC has a special formulation that prevents termite attacks without being toxic for the environment, in compliance with quality standard EN 118.
- Smooth internal and external surfaces. Highly flexible and light.
- External diameters adjusted for easy assembly on PVC and PE seal fittings.
- Hermetically sealed and resistant at joint up to pressure of 30 bar.
- Withstands temperatures between -10°C and 60°C.
- Hose with good chemical resistance associated with PVC's usual properties.
- Great resistance to waste water and chlorinated swimming pool water.



USE
IN POOLS



CONSTRUCTION



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba

Applications

- ▶ Discharge, hydro-sanitary piping, swimming pool filtration systems, hydro-massage bathtubs, drains, installed in areas susceptible to underground termite attacks.
- ▶ The ground must be free from termites prior to installation.

INT Ø mm	INT Ø in	EXT Ø mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O
42	1" 3/4	50	710	5	15	126	9
43	1" 3/4	50	685	5	15	129	9
55	2" 1/8	63	1000	5	15	165	9

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters



Hidrotubo® Plus Especial Termitas

Hose manufactured via the co-extrusion of flexible, blue PVC with a rigid, anti-shock PVC spiral in accordance with UNE-EN ISO 3994, with protection against termite attacks.



Features

- For industrial use and special use in swimming pools.
- The flexible PVC has a special formulation that prevents termite attacks without being toxic for the environment, in compliance with quality standard EN 118.
- Smooth internal and external surfaces. Highly flexible and light.
- External diameters adjusted for easy assembly on PVC and PE seal fittings.
- Hermetically sealed and resistant at joint up to pressure of 30 bar.
- Withstands temperatures between -10°C and 60°C.
- Hose with good chemical resistance associated with PVC's usual properties.
- Great resistance to waste water and chlorinated swimming pool water.



USE
IN POOLS



CONSTRUCTION



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba

Applications

- ▶ Discharge, hydro-sanitary piping, swimming pool filtration systems, hydro-massage bathtubs, drains, installed in areas susceptible to underground termite attacks.
- ▶ The ground must be free from termites prior to installation.

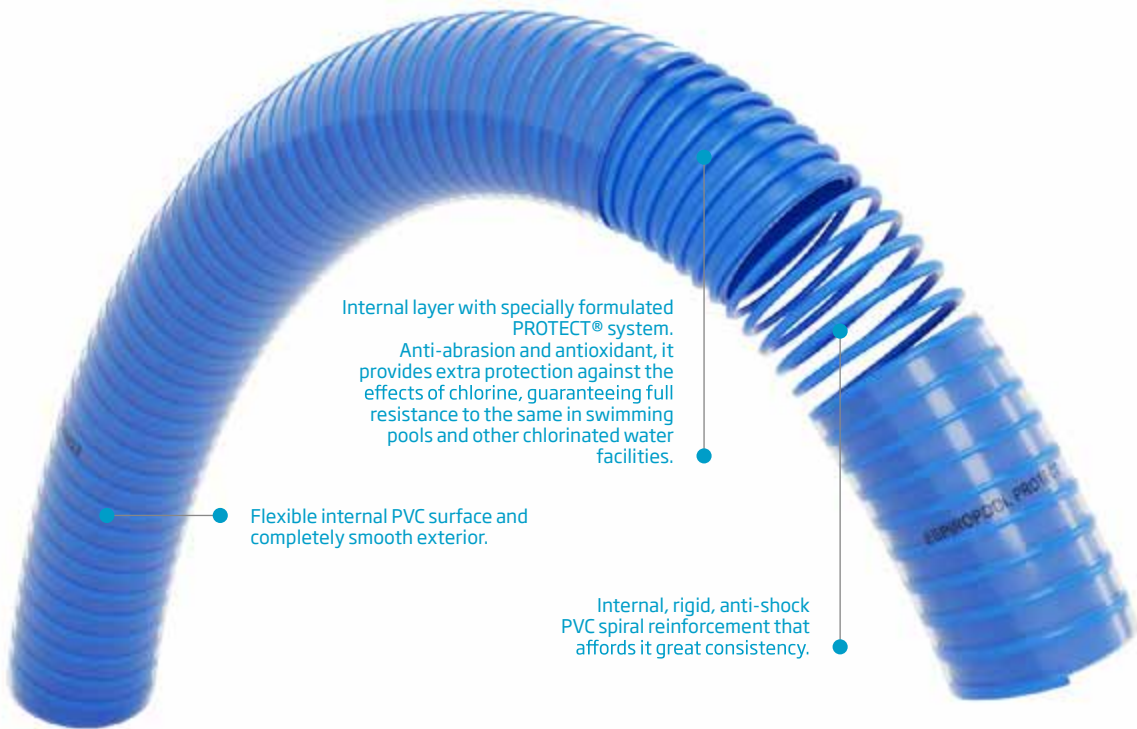
INT Ø mm	INT Ø in	EXT Ø mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O
42	1" 3/4	50	710	5	15	126	9
43	1" 3/4	50	685	5	15	129	9
55	2" 1/8	63	1000	5	15	165	9

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
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Espiropool Protect®

Flexible, transparent PVC hose that complies with ISO 3994, with a rigid, ovate spiral that is practically incapable of being deformed and an internal PROTECT layer to provide full resistance to abrasion caused by chlorine.



Internal layer with specially formulated PROTECT® system. Anti-abrasion and antioxidant, it provides extra protection against the effects of chlorine, guaranteeing full resistance to the same in swimming pools and other chlorinated water facilities.

Flexible internal PVC surface and completely smooth exterior.

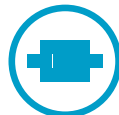
Internal, rigid, anti-shock PVC spiral reinforcement that affords it great consistency.

Features

- For industrial use and special use in swimming pools.
- Smooth internal and external surfaces. Highly flexible and light.
- Internal surface covered with PROTECT® technology, a material that grants it greater resistance to chlorinated products and abrasion.
- Rigid spiral with an ovate cross-section that provides greater resistance to compression.
- External diameters adjusted for easy assembly on PVC and PE seal fittings.
- Hermetically sealed and resistant at joint up to pressure of 30 bar.
- Withstands temperatures between -10°C and 60°C.
- Hose with high chemical resistance associated with PVC's usual properties.
- Great resistance to waste water and chlorinated swimming pool water with a high level of chlorination (> 3500 ppm).
- Hose with AENOR N MARK product certification in accordance with UNE-EN ISO 3994.



USE IN POOLS



CONSTRUCTION



TEMPERATURE -10°C TO 60°C



HIGH QUALITY CONTROL



FREE FROM Cd / Pb / Ba

Applications

- Discharge, hydro-sanitary piping, swimming pool filtration systems with a high chlorine content, hydro-massage bathtubs.

INT Ø mm	INT Ø in	EXT Ø mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	BENDING RADIUS mm	VACUUM m H ₂ O
42	1" 3/4	50	710	5	15	85	9
55	2" 1/8	63	1000	5	15	150	9



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Transflot®

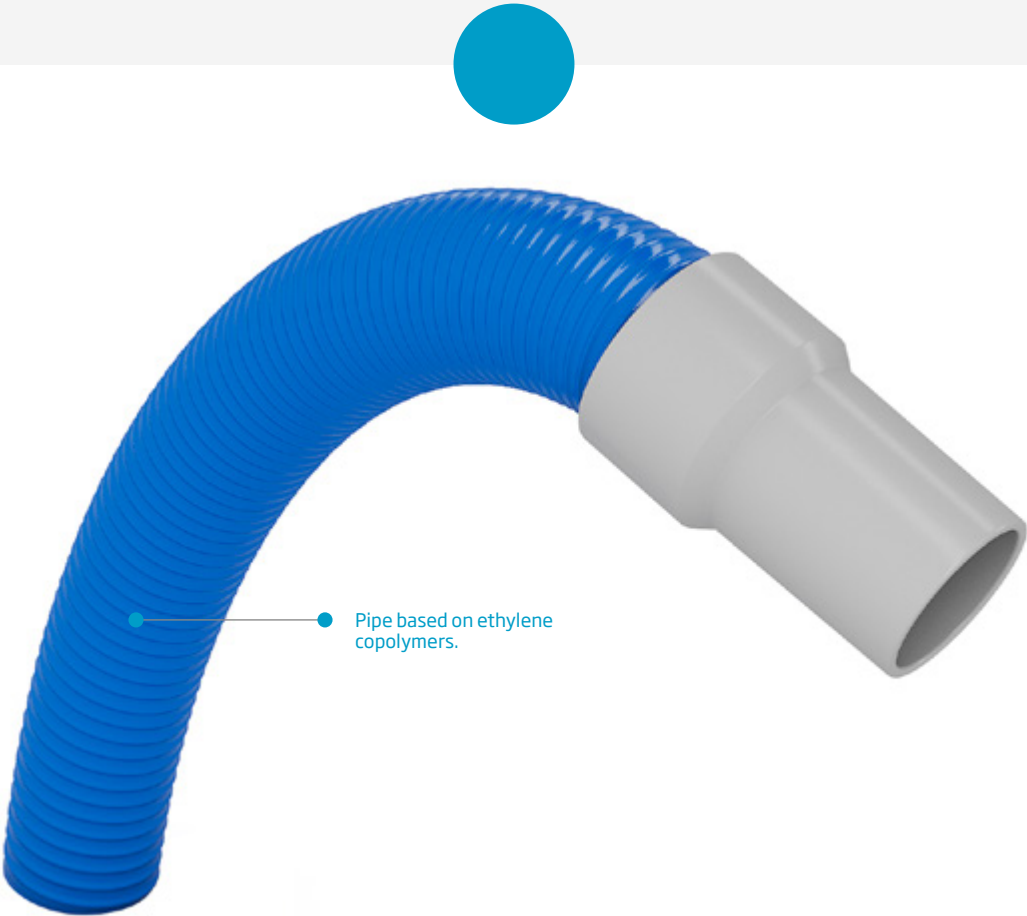
Floating, opaque, highly flexible hose manufactured based on ethylene-vinyl acetate copolymers.

Applications

- ▶ Swimming pool cleaner.
- ▶ Floating swimming pool cleaner.

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TRANSFLOT®



Features

- For domestic use and special use in swimming pools.
- Its corrugated, rounded profile and its specific weight of 0.989g/cm³ ensure its buoyancy when used.
- Easy to handle in swimming pool cleaners, either manually or automatically.
- Resistant to UV rays, the cold and breakage when extended.
- Its bending radius is twice its internal diameter.
- Extremely watertight in adherence to hose nozzles.
- Withstands temperatures between -25°C and 55°C.



DOMESTIC USE



USE
IN POOLS



EASY TO USE



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba

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TRANSFLOT®



INT Ø mm	INT Ø in	EXT Ø mm	WEIGHT g/m	BENDING RADIUS mm	VACUUM m H ₂ O
32	1" 1/4	41	180	64	5
38	1" 1/2	47	220	76	5
51	2"	62	360	100	5

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

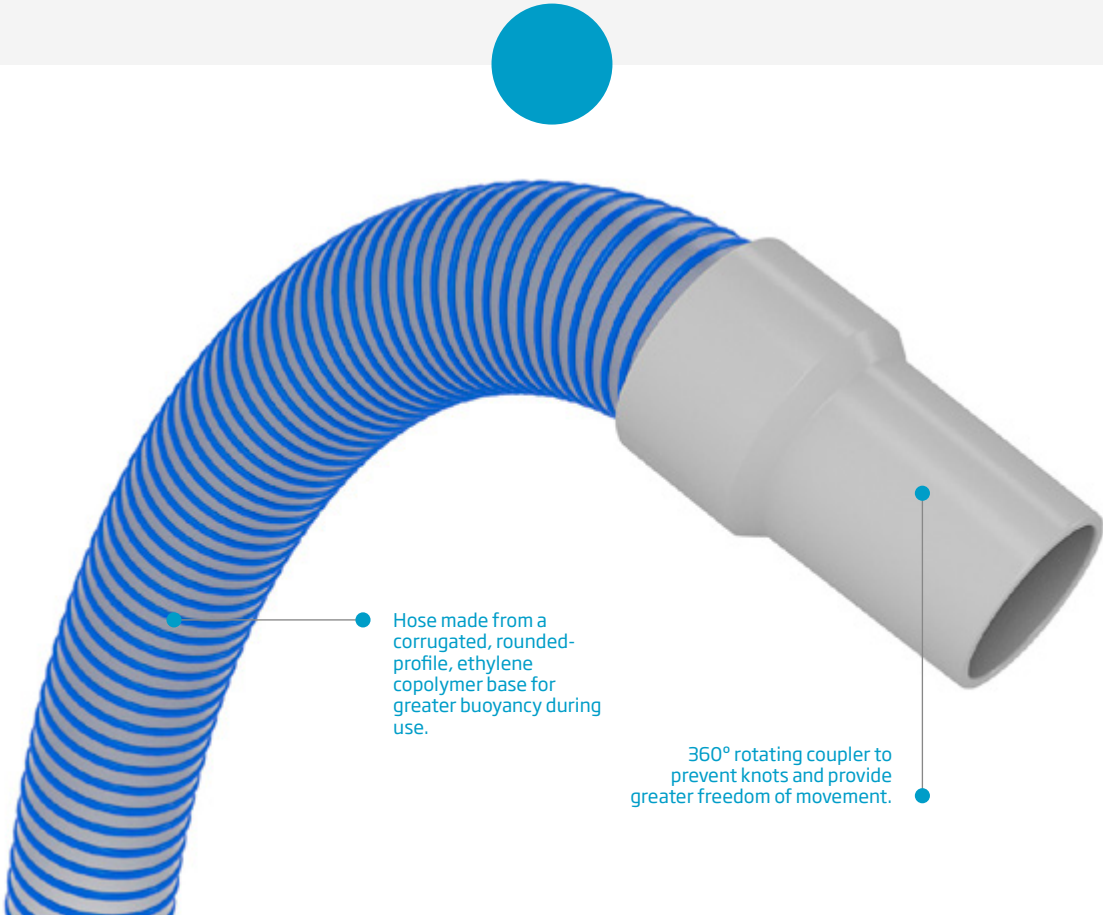


Transflot® Bicolor

Opaque, floating, highly flexible hose manufactured based on ethylene-vinyl acetate copolymers, with a blue structure, white spiral and rotating coupler.

Applications

- ▶ Swimming pool cleaner.
- ▶ Floating swimming pool cleaner.



Features

- For domestic use and special use in swimming pools.
- Its corrugated, rounded profile and its specific weight of 0.989 g/cm³ ensure it floats when used.
- Easy to handle in swimming pool cleaners, either manually or automatically.
- Resistant to UV rays, the cold and breakage when extended.
- Its bending radius is twice its internal diameter.
- Great watertightness in adherence to hose nozzles.
- Withstands temperatures between -25°C and 55°C.



DOMESTIC USE



USE IN POOLS



EASY TO USE



HIGH QUALITY CONTROL



FREE FROM Cd / Pb / Ba

INT Ø mm	INT Ø in	EXT Ø mm	WEIGHT g/m	BENDING RADIUS mm	VACUUM m H ₂ O
38	1 1/2	47	220	76	5

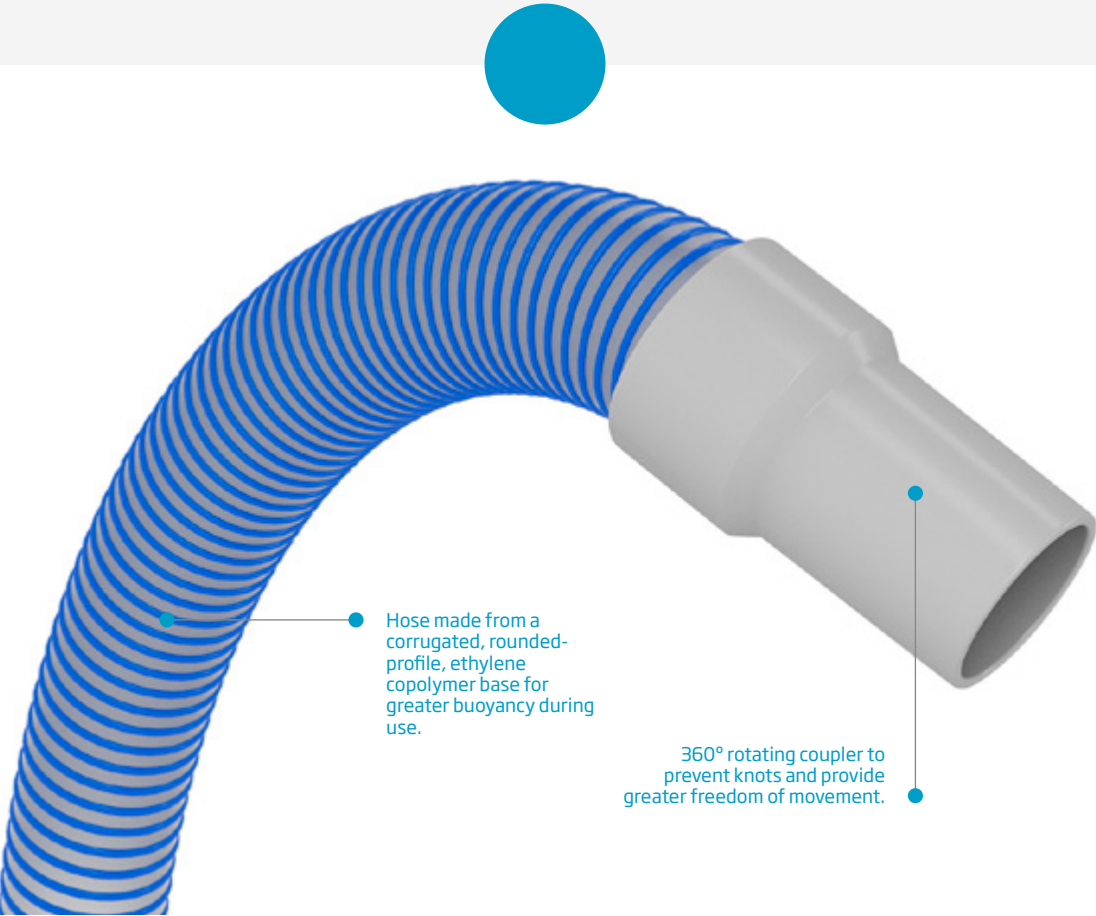
Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Espiroflot®

Opaque, floating, highly flexible hose manufactured based on ethylene-vinyl acetate copolymers, with a blue structure, white spiral and rotating coupler.

Applications

- ▶ Swimming pool cleaner.
- ▶ Floating swimming pool cleaner.



Features

- For domestic use and special use in swimming pools.
- Its corrugated, rounded profile and its specific weight of 0.989 g/cm³ ensure it floats when used.
- Easy to handle in swimming pool cleaners, either manually or automatically.
- Resistant to UV rays, the cold and breakage when extended.
- Its bending radius is twice its internal diameter.
- Great watertightness in adherence to hose nozzles.
- Withstands temperatures between -25°C and 55°C.



DOMESTIC USE



USE IN POOLS



EASY TO USE



HIGH QUALITY CONTROL



FREE FROM Cd / Pb / Ba



INT Ø mm	INT Ø in	EXT Ø mm	WEIGHT g/m	BENDING RADIUS mm	VACUUM m H ₂ O
38	1" 1/2	47	180	65	4

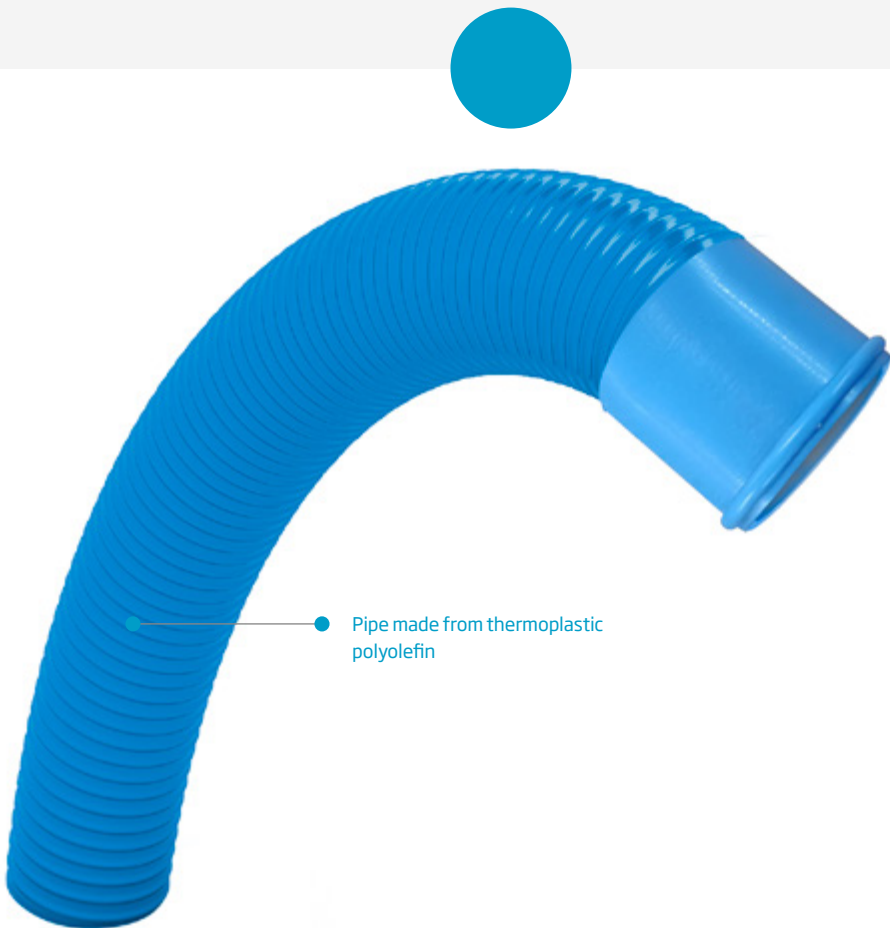
Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Transflot® Seccionable

Sectionable floating hose suitable for pool cleaners. The hose can be cut to the desired length due to the integrated separation cuffs in each section. Suitable as a spare part.

Applications

- ▶ Swimming pool cleaner.
- ▶ Floating swimming pool cleaner.



Features

- Its corrugated structure with a rounded profile and its specific weight of less than 1 ensure its buoyancy during work service.
- Non-poisonous.
- Sectionable connection nozzles, extruded during the same process in regular sections, which allows the tube to be cut to adapt its length to the user's needs.
- Easy handling in pool cleaners either manually or automatically.
- Resistant to UVA rays, cold and breakage in elongation.
- Withstands temperatures between -25°C and +55°C.



DOMESTIC USE



USE
IN POOLS



EASY TO USE



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba

Ø INT mm	INT Ø in	Ø EXT mm	LENGTH COME IN NOZZLES (mm)	WEIGHT g/m	BENDING RADIUS MM	VACUUM m H2O	COILS m
32	1" 1/4	39	1135 +/- 25	175	40	4	50
38	1" 1/2	44	1642 +/- 25	200	48	4	50

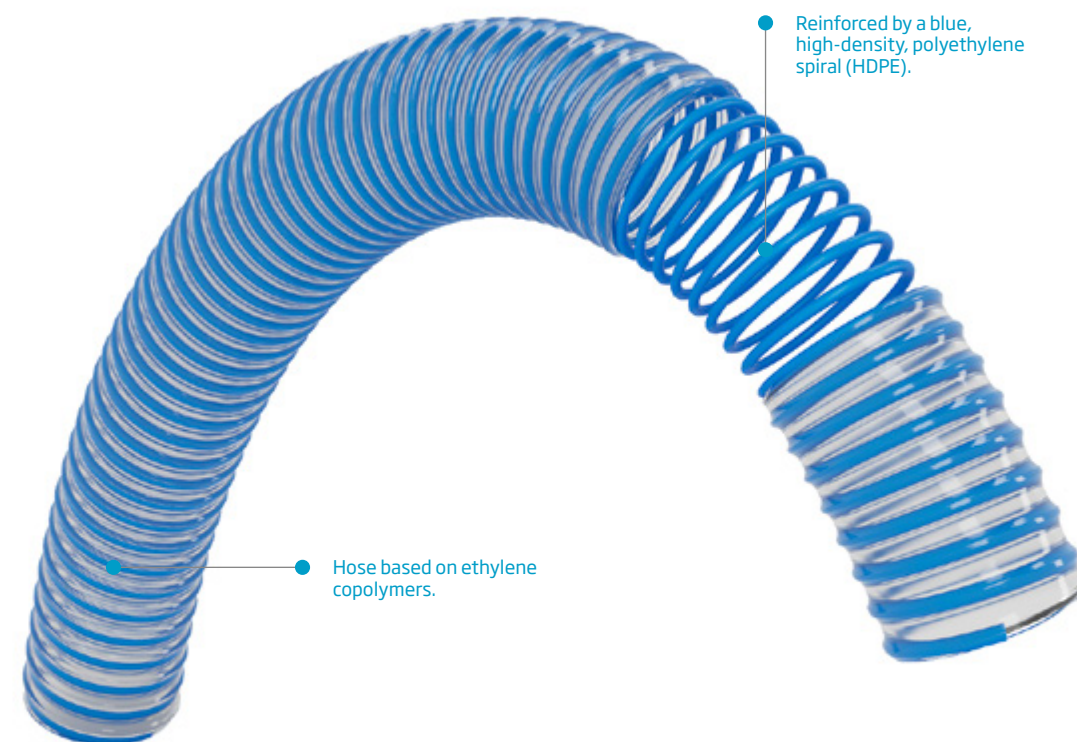
Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Transflot® E.A.

Transparent, floating, highly flexible hose manufactured based on ethylene copolymers and reinforced by a blue, high-density polyethylene spiral.

Applications

► Professional swimming pool cleaning.



Reinforced by a blue, high-density, polyethylene spiral (HDPE).

Hose based on ethylene copolymers.

Features

- Floating.
- Highly resistant to crushing thanks to it being reinforced by high-density polyethylene (HDPE). Ideal for cleaning large swimming pools, or when superior vacuum levels are required.
- For special use in swimming pools.
- Resistant to UV rays, the cold and breakage when extended.
- Its bending radius is twice its internal diameter.
- Withstands temperatures between -25°C and 55°C.



USE
IN POOLS



NON-TOXIC



HIGH QUALITY
CONTROL



EASY TO USE



FREE FROM
Cd / Pb / Ba

Ø INT mm	Ø INT IN	Ø EXT mm	WEIGHT g/m	BENDING RADIUS mm	VACUUM m H ₂ O
38	1" 1/4	44	250	76	8
51	2"	57	430	100	8

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Espirokit Automatic Cleaner[®]

Floating, opaque, highly flexible hose manufactured based on ethylene copolymers.

► Cleaning of swimming pools with automatic cleaners.



Features

- Its corrugated, rounded profile and its specific weight under 1 (0,989 g/cm³) ensure it floats when used.
- For special use in swimming pools.
- Resistant to UV rays, the cold and breakage when extended.
- Its bending radius is twice its internal diameter.
- Secures well to hose nozzles when used in assembly.
- Withstands temperatures between -25°C and 55°C.



USE
IN POOLS



NON-TOXIC



HIGH QUALITY
CONTROL



EASY TO USE



FREE FROM
Cd / Pb / Ba

Pack

LENGTH	1 m	1.5 m
UNITS	12	8

INT Ø mm	INT Ø in	EXT Ø mm	WEIGHT g/m	BENDING RADIUS mm	VACUUM m H ₂ O
38	1" 1/4	45.5	230	76	5

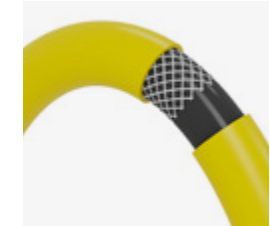
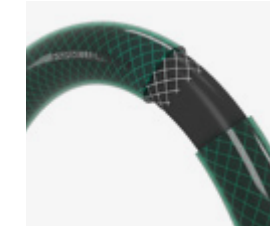
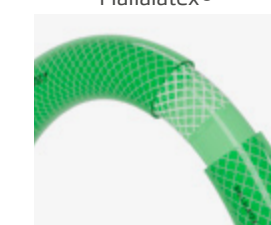
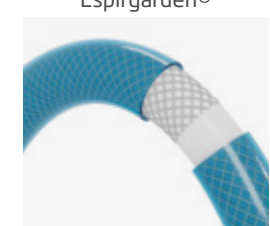
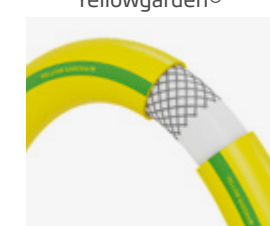
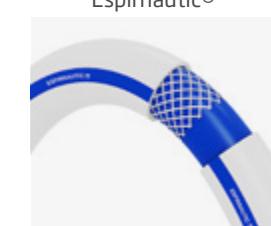
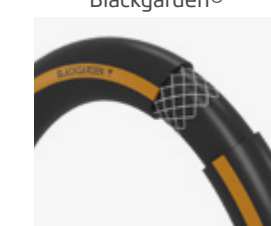
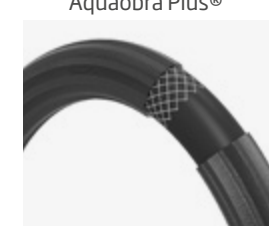
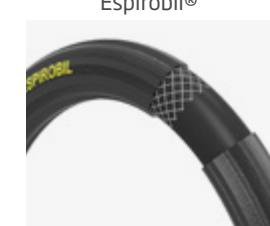
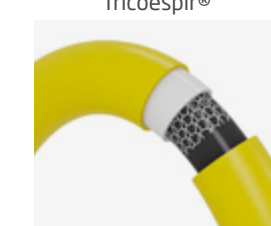
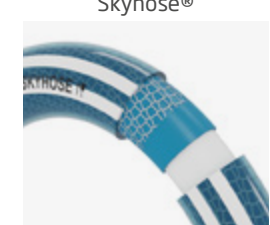
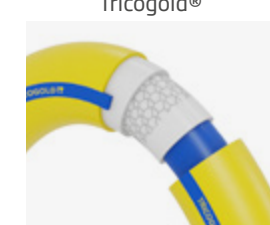
Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
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Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Hardware Sanitation

Gardening
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Sanitation
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Gardening

250 Espiroaspersión® 	252 Espirojardín® 	254 Espirojardín Azul® 	256 Supervinil® Rústica 
258 Flexijardín® 	260 Texovinil® 	262 Espirolatex® 	264 Mallalatex® 
266 Espirgarden® 	268 Yellowgarden® 	270 Espirnauteic® 	272 Blackgarden® 
274 Aquaobra Plus® 	276 Espirobil® 	Knitted	278 Tricoespir® 
280 Skyhose® 	282 Tricogold® 	284 Ecosilver® 	286 Tricovinil® 

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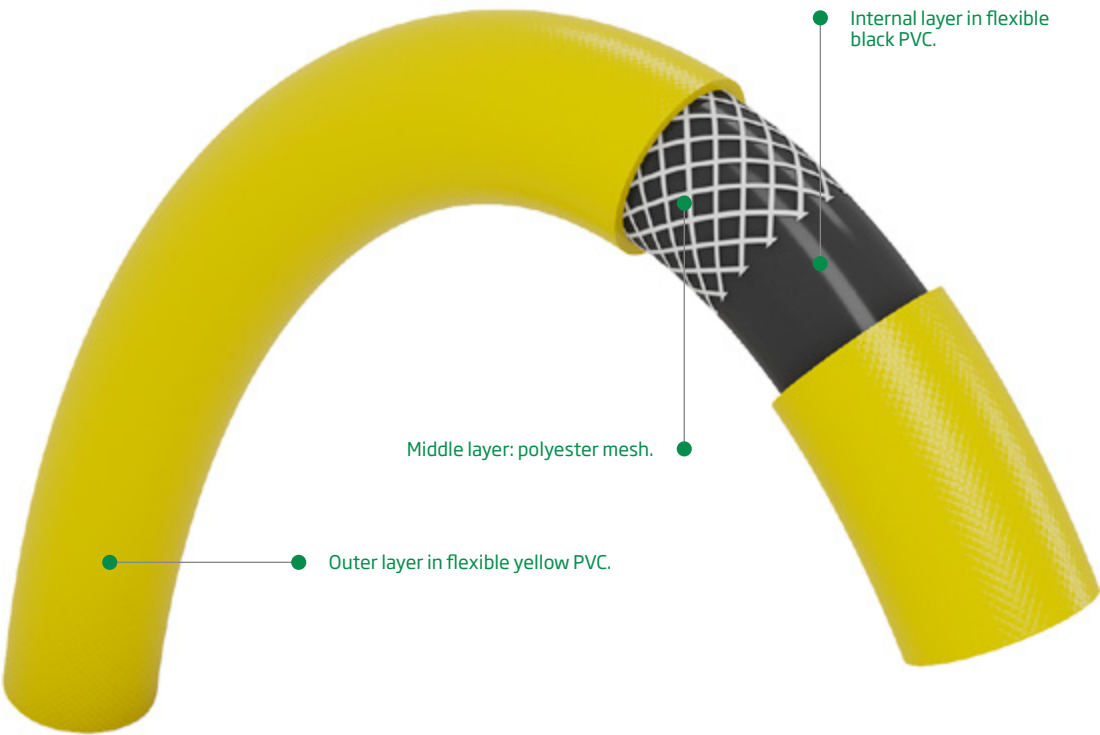


Espiroaspersión®

Multi-layer, plasticised PVC hose, reinforced by a polyester mesh.
Specifically for agricultural irrigation.

Applications

► Irrigation and sprinkling in general, gardening, horticulture and floriculture.

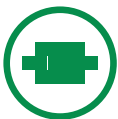


Features

- For agricultural use and construction.
- Garden hose reinforced with a polyester mesh to resist pressure from the water system.
- Chemical resistance associated with PVC's resistance chart.
- Recommended temperature for use between -10°C and 60°C.



ECONOMIC



CONSTRUCTION



AGRICULTURAL
USE



EASY TO USE



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba

INT Ø mm	INT Ø in	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	ROLL LENGTH m
12.5	1/2"	125	8	24	25-50
15	5/8"	135	8	24	25-25-50
19	3/4"	200	8	24	25-36-50
25	1"	330	7	21	25-50
30	1" 1/8	550	7	21	25-50

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Espirojardín®

Multi-layer, flexible PVC hose, reinforced with a polyester mesh.
Specifically designed for domestic irrigation.

Applications

- ▶ Domestic irrigation.
- ▶ Gardening, horticulture, floriculture and sport boats.

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ESPIROJARDÍN®

ESPIROFLEX. MANUFACTURE OF FLEXIBLE HOSES



Features

- For domestic use.
- Garden hose reinforced with a polyester mesh to resist pressure from the water system.
- Very light and flexible, with a smooth surface.
- Good chemical resistance associated with PVC's resistance chart.
- Recommended temperature for use between -10°C and 60°C.



DOMESTIC USE



ECONOMIC



EASY TO USE



LIGHT



HIGH QUALITY CONTROL



FREE FROM Cd / Pb / Ba

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ESPIROJARDÍN®

ESPIROFLEX. MANUFACTURE OF FLEXIBLE HOSES



INT Ø mm	INT Ø in	EXT Ø mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	ROLL LENGTH m
12.5	1/2"	17	120	10	30	15-20-25-50
15	5/8"	19	150	8	24	15-20-25-50
19	3/4"	24.5	250	8	24	25-50
25	1"	32	420	6	18	25-50
30	1 1/8"	38	580	6	18	25-50

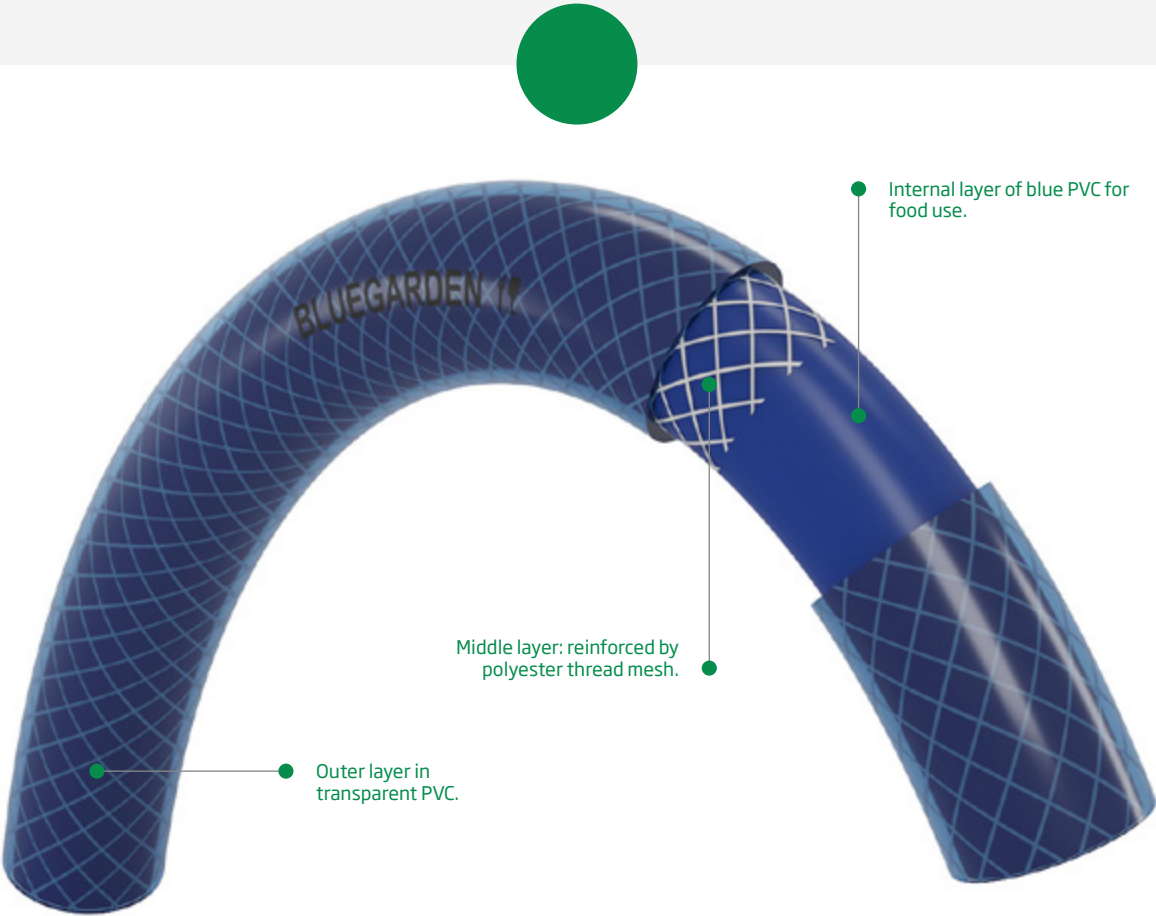
Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
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Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Espirojardín Azul®

Multi-layer, plasticised PVC hose, reinforced internally by a polyester mesh,

Applications

► Agricultural irrigation, gardening, construction and cleaning of boats.



Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011 (see declaration of conformity).
- Highly flexible and easy to use, with special resistance to torsion.
- Good chemical resistance associated with PVC's resistance chart.
- Withstands temperatures between -10°C and 60°C.



DOMESTIC USE



FOOD USE



ECONOMIC



EASY TO USE



LIGHT



HIGH QUALITY CONTROL



FREE FROM Cd / Pb / Ba

INT Ø mm	INT Ø in	EXT Ø mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar
12.5	1/2"	17	130	10	30
15	5/8"	21	220	10	30
19	3/4"	25	270	8	24
25	1"	32	405	8	24

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Supervinil® Rústica

Monolayer, plasticised PVC hose with a striated surface, designed for gardening, agricultural use and pump systems.

Applications

- ▶ Rural areas with low temperatures.
- ▶ Farms and livestock facilities in general.



Features

- For agricultural and domestic use.
- Special formulation with rubber feel and resistant to low temperatures.
- Highly flexible and very easy to use.
- Good chemical resistance associated with PVC's resistance chart.
- Withstands temperatures between -25°C and 70°C.
- Easy to recycle once its useful life has ended.



DOMESTIC
USE



AGRICULTURAL
USE



RUBBER FEEL



STRIATED



ADVERSE
SCENARIOS



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba

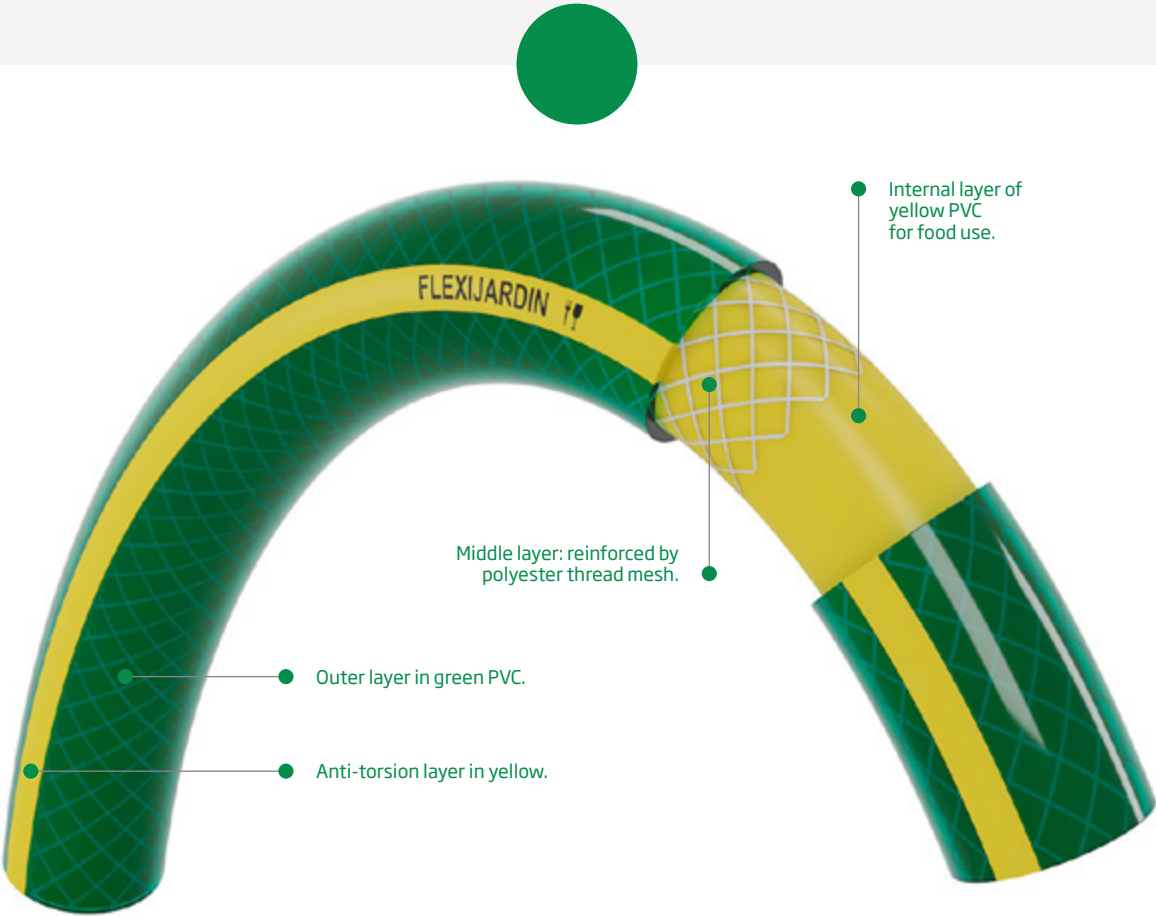
INT Ø mm	INT Ø in	EXT Ø mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	ROLL LENGTH m
10	3/8"	14	100	3.5	10	50
12	1/2"	16	116	3.0	8.5	50
15	5/8"	19	141	2.5	7	50
20	3/4"	25	233	2.2	6.6	50
25	1"	31	348	2.2	6.6	50
30	1" 1/8	38	564	2.2	6.6	50
35	1" 3/8	44	737	2.2	6.6	50
40	1" 5/8	50	933	2.2	6.6	50
45	1" 3/4	56	1152	2.2	6.6	50
51	2"	62	1393	2.2	6.6	50
60	2" 1/32	72	1389	2	6	25

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters



Flexijardín®

Quadruple-layered, plasticised PVC hose, reinforced with a polyester mesh and fitted with an anti-torsion tensor. Highly flexible and easy to use, especially for gardening.



Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011 (see declaration of conformity).
- Highly flexible and easy to handle.
- Chemical resistance associated with PVC's resistance chart.
- Recommended temperature for use between -10°C and 60°C.



DOMESTIC USE



FOOD USE



EASY TO USE



LIGHT



HIGH QUALITY CONTROL



FREE FROM Cd / Pb / Ba

Applications

- ▶ Gardening, horticulture and floriculture irrigation.
- ▶ Domestic facilities and water transport in general.
- ▶ Transfer of liquid food products that require food simulants A, B and C in OM2 conditions in accordance with Regulation EU 10/2011.

INT Ø mm	INT Ø in	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	ROLL LENGTH m
15	5/8"	180	8	24	25-50
19	3/4"	260	8	24	25-50
25	1"	380	6	18	25-50

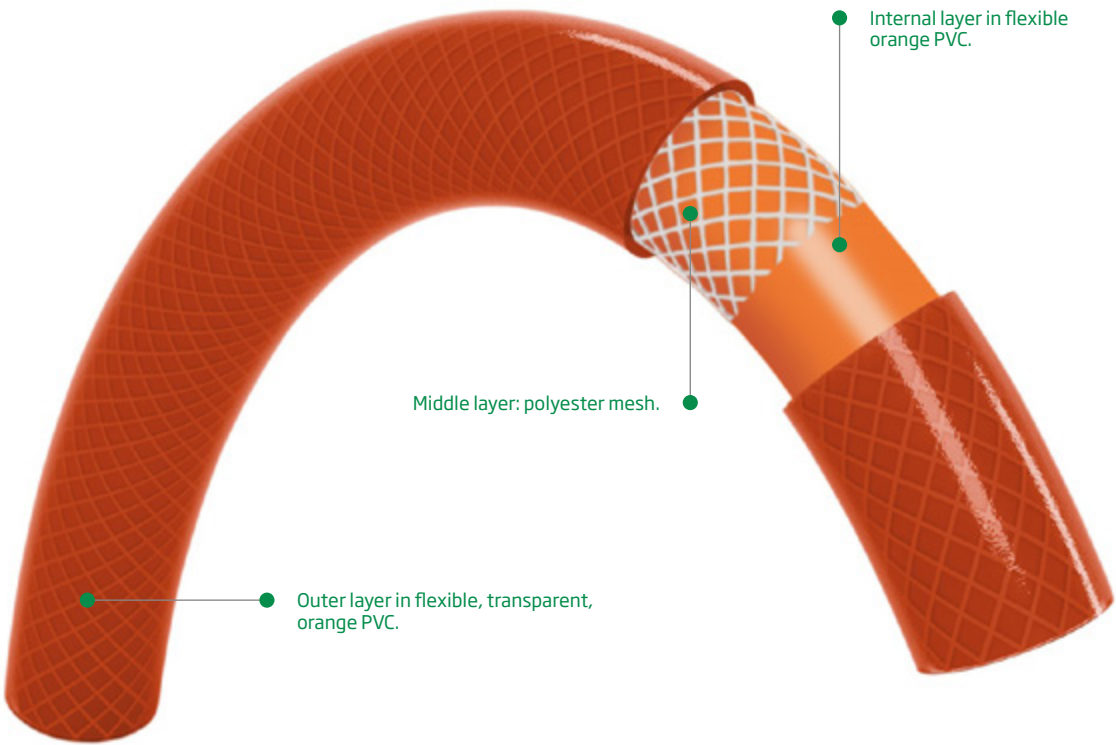
Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Texovinil®

Multi-layer, plasticised PVC hose, reinforced by a polyester mesh.

Applications

- ▶ Domestic irrigation.
- ▶ Gardening, horticulture and floriculture.



Features

- For industrial use.
- Very light and flexible, with a smooth surface.
- Good chemical resistance associated with PVC's resistance chart.
- Recommended temperature for use between -10°C and 60°C.



DOMESTIC
USE



INDUSTRIAL
USE



EASY TO USE



LIGHT



ECONOMIC



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba

INT Ø mm	INT Ø in	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	ROLL LENGTH m
15	5/8"	135	8	24	25-50
19	3/4"	250	8	24	25-50
25	1"	330	6	18	25-50

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Espirolatex®

Monolayer, flexible PVC hose.



● Monolayer hose made from material with a latex feel, for food use.

Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011 (see declaration of conformity).
 - Highly flexible, monolayer, completely smooth hose.
 - Highly resistant to folding and twisting.
- UV protection.
 - Good chemical resistance associated with PVC's resistance chart.
 - Withstands temperatures between -10°C and 60°C.



DOMESTIC USE



FOOD USE



EASY TO USE



LIGHT



HIGH QUALITY CONTROL



UV PROTECTION



LATEX FEEL



ANTI-FOLDING



FREE FROM Cd / Pb / Ba

Applications

- ▶ Gardening, horticulture and floriculture irrigation.
- ▶ Cleaning sports boats.
- ▶ Transfer of liquid food products that require food simulants A, B and C in OM2 conditions in accordance with Regulation EU 10/2011.



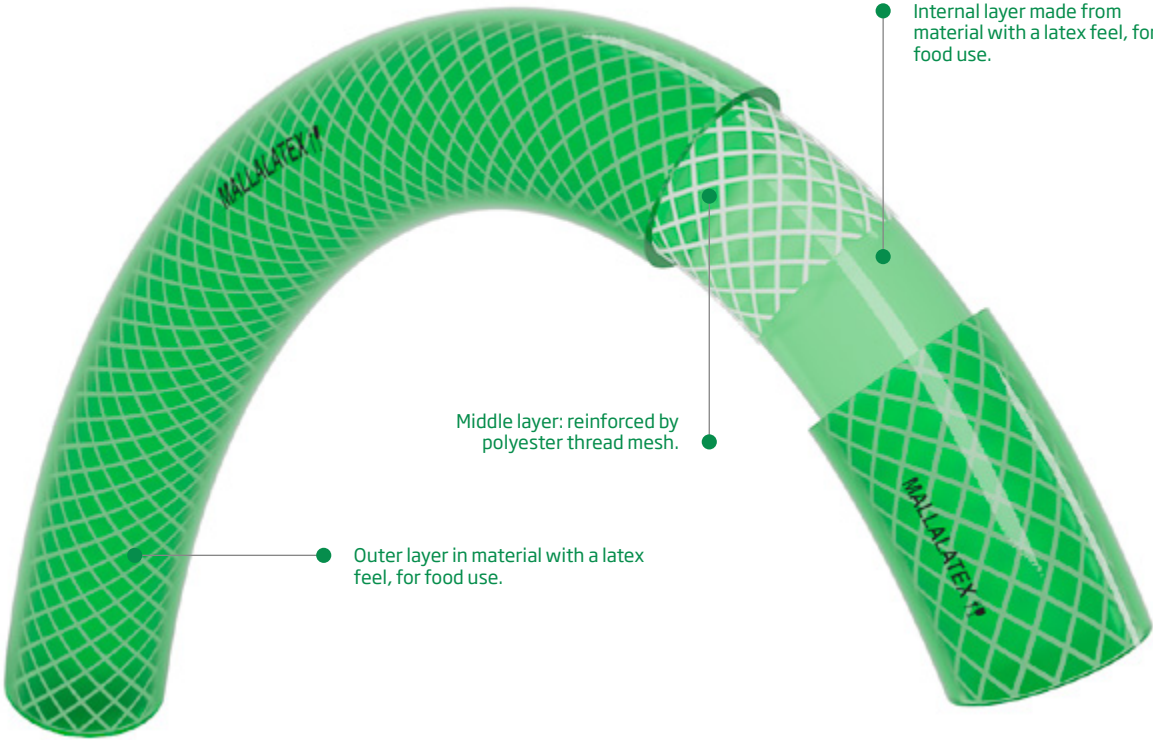
INT Ø mm	INT Ø in	EXT Ø mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	ROLL LENGTH m
15	5/8"	21	205	3	9	25-50
19	3/4"	27	350	3	9	25-50
25	1"	33	440	3	9	25-50
30	1" 1/8	38	515	3	9	25-50

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters



Mallalatex®

Plasticised PVC hose, reinforced internally by a polyester mesh.



Middle layer: reinforced by polyester thread mesh.

Outer layer in material with a latex feel, for food use.

Internal layer made from material with a latex feel, for food use.

Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011 (see declaration of conformity).
- UV protection.
- Good chemical resistance associated with PVC's resistance chart.
- High-quality, highly flexible hose, reinforced internally by a polyester mesh that helps it withstand medium working pressures.
- Withstands temperatures between -10°C and 60°C.



DOMESTIC USE



FOOD USE



ECONOMIC



EASY TO USE



LIGHT



HIGH QUALITY CONTROL



UV PROTECTION



LATEX FEEL



ANTI-FOLDING



GREATER FLEXIBILITY



FREE FROM Cd / Pb / Ba

Applications

- ▶ Gardening, horticulture and floriculture irrigation.
- ▶ Cleaning sports boats.
- ▶ Transfer of liquid food products that require food simulants A, B and C in OM2 conditions in accordance with Regulation EU 10/2011.



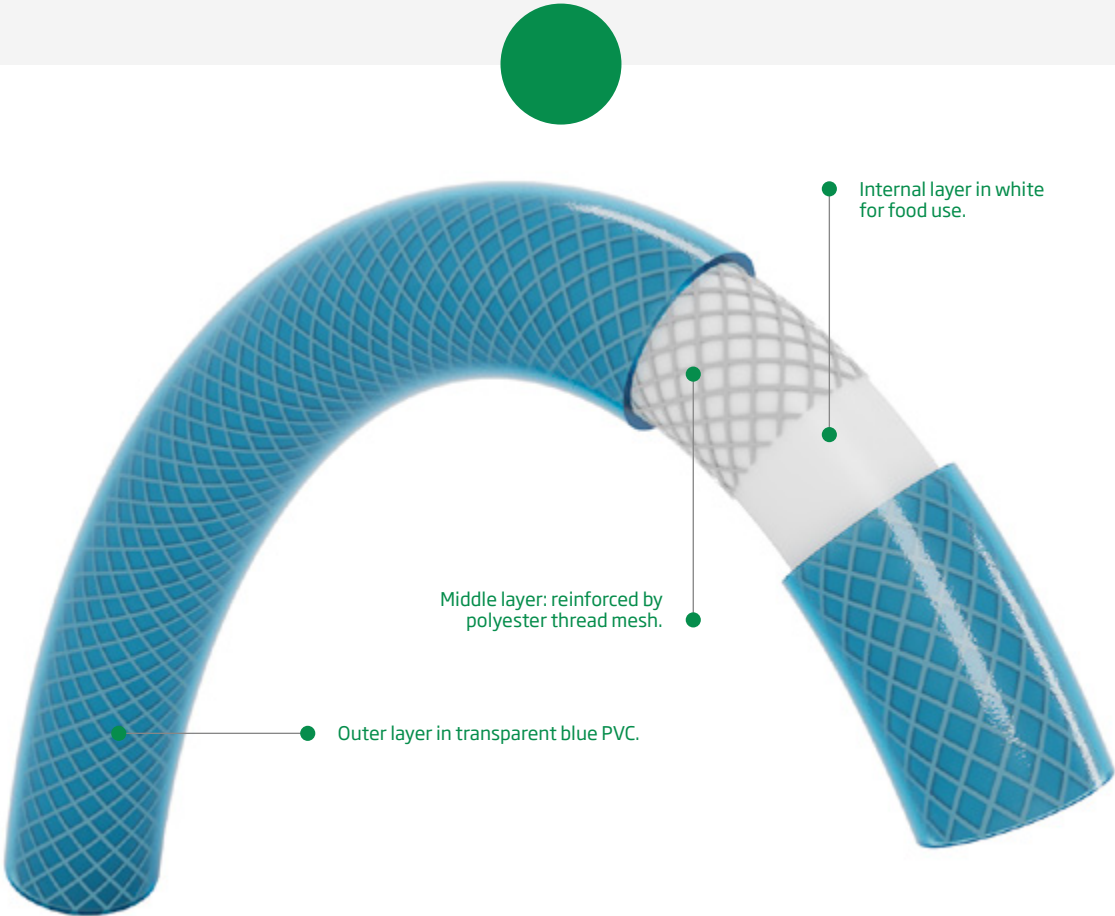
INT Ø mm	INT Ø in	EXT Ø in	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	ROLL LENGTH m
15	5/8"	21	200	8	24	15-20-25-50
19	3/4"	26	300	8	24	25-50
25	1"	32	370	8	24	25-50

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters



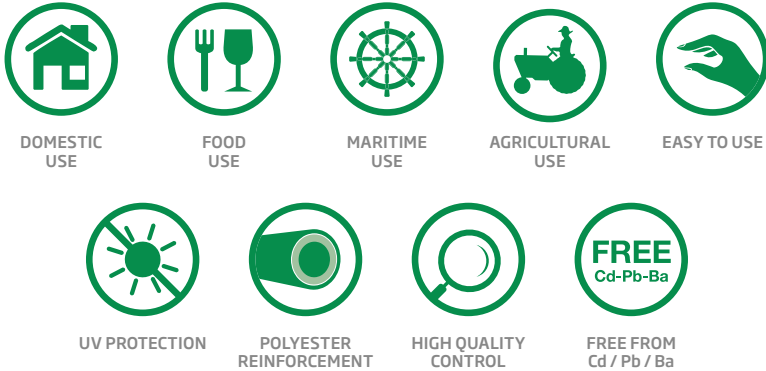
Espirgarden®

Multi-layer, plasticised PVC hose, reinforced by a polyester mesh.
Specifically for gardening and food use.



Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011 (see declaration of conformity).
- UV protection.
- Good chemical resistance associated with PVC's resistance chart.
- Withstands temperatures between -10°C and 60°C.



Applications

- ▶ Gardening, horticulture and floriculture irrigation.
- ▶ Cleaning sports boats.
- ▶ Transfer of liquid food products that require food simulants A, B and C in OM2 conditions in accordance with Regulation EU 10/2011.

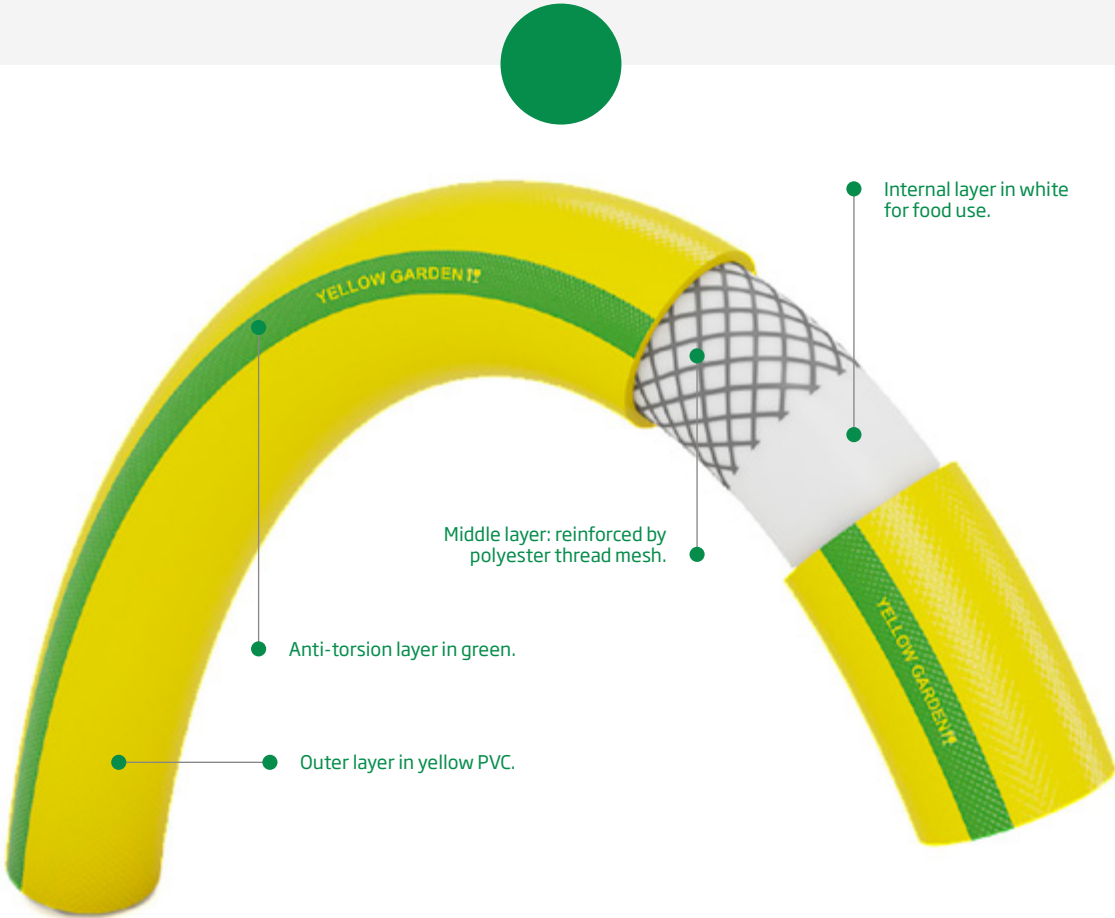


INT Ø mm	INT Ø in	EXT Ø mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	ROLL LENGTH m
12.5	1/2"	17	120	10	30	25-50
15	5/8"	21	200	10	30	25-50
19	3/4"	26	300	10	30	25-50
25	1"	33	465	10	30	25-50

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

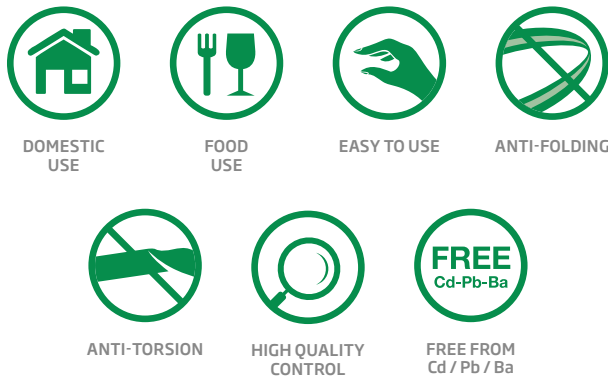
Yellowgarden®

Multi-layer, plasticised PVC hose, reinforced by a polyester mesh, with a fourth layer and a special, anti-folding tensor fitted. Designed especially for gardening and food use.



Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011 (see declaration of conformity).
- UV protection.
- Chemical resistance associated with PVC's usual properties.
- Recommended temperature for use between -10°C and 60°C.



Applications

- ▶ Gardening, horticulture and floriculture irrigation.
- ▶ Transfer of liquid food products that require food simulants A, B and C in OM2 conditions in accordance with Regulation EU 10/2011.

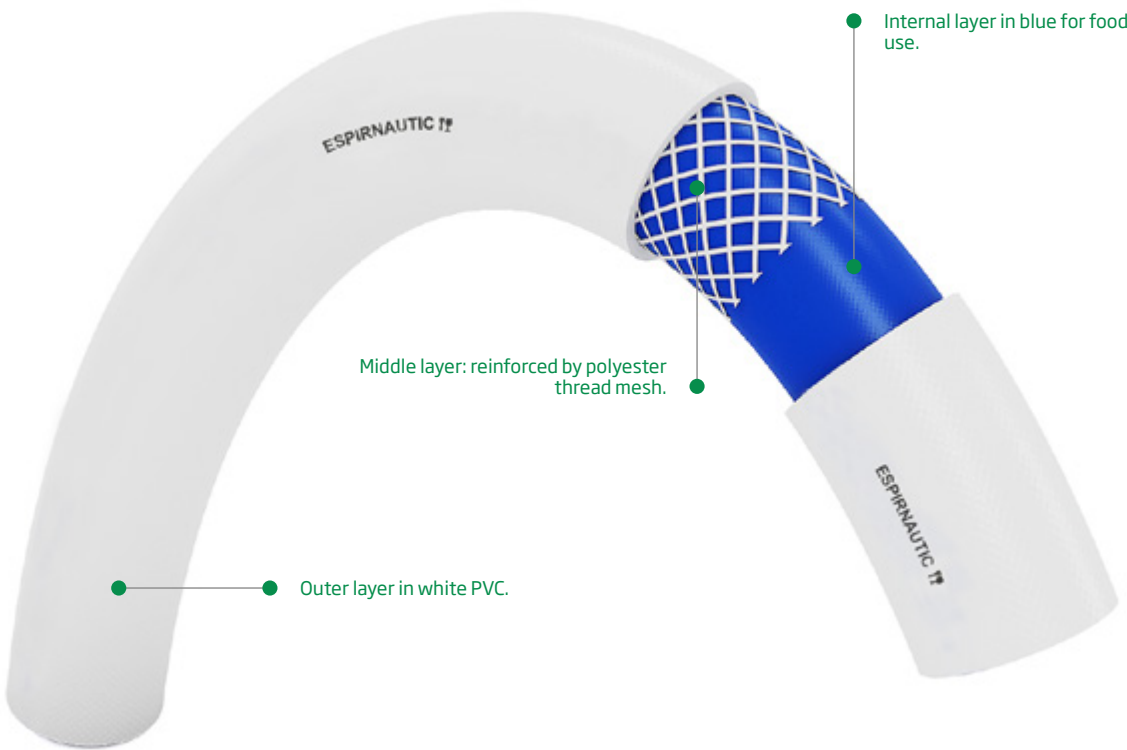


INT Ø mm	INT Ø in	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	ROLL LENGTH m
12.5	1/2"	120	10	30	25-50
15	5/8"	210	10	30	25-50
19	3/4"	250	8	24	25-50
25	1"	420	8	24	25-50

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Espirnautic®

Multi-layer, flexible, plasticised PVC hose, reinforced with a polyester mesh. Specifically designed for boats and food use. Excellent flexibility, ease of use, resistance to breakage when extended, and anti-folding.



Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011 (see declaration of conformity).
- UV protection.
- Good chemical resistance associated with PVC's resistance chart.
- Withstands temperatures between -10°C and 60°C.



FOOD
USE



MARITIME
USE



EASY TO USE



UV PROTECTION



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba

Applications

- Cleaning sports boats.
- Transfer of liquid food products that require food simulants A, B and C in OM2 conditions in accordance with Regulation EU 10/2011.

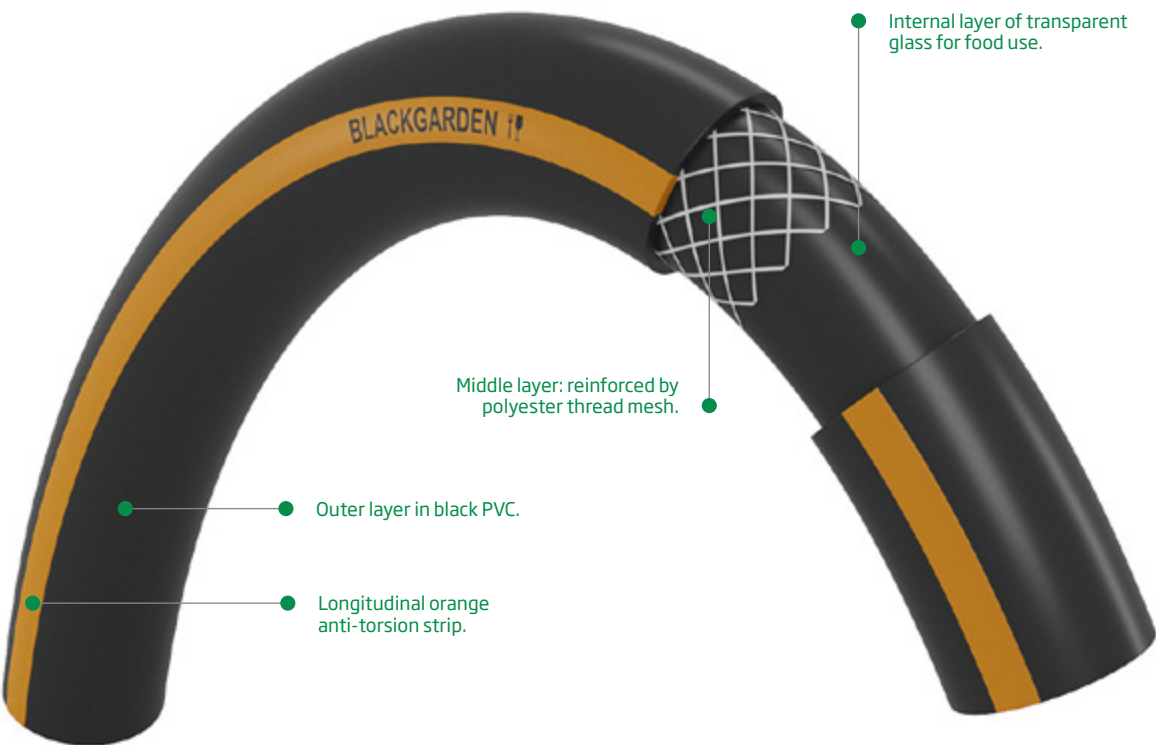


INT Ø mm	INT Ø in	EXT Ø mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	ROLL LENGTH m
15	5/8"	21	210	10	30	25-50
19	3/4"	26	300	10	30	25-50
25	1"	33	465	8	24	25-50

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Blackgarden®

Multi-layer, plasticised PVC hose, reinforced internally by a polyester mesh and a fourth layer, fitted with a special, anti-folding tensor. Designed especially for gardening in harsh conditions.



Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011 (see declaration of conformity).
- UV protection.
- Good chemical resistance associated with PVC's resistance chart.
- Withstands temperatures between -10°C and 60°C.



DOMESTIC USE



FOOD USE



UV PROTECTION



EASY TO USE



ANTI-FOLDING



HIGH QUALITY CONTROL



FREE FROM Cd / Pb / Ba

Applications

- ▶ Gardening, horticulture and floriculture irrigation.
- ▶ High-performance applications, extreme conditions.
- ▶ Transfer of liquid food products that require food simulants A, B and C in OM2 conditions in accordance with Regulation EU 10/2011.



INT Ø mm	INT Ø in	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	ROLL LENGTH m
12.5	1/2"	120	10	30	50
15	5/8"	210	10	30	50
19	3/4"	250	8	24	50
25	1"	420	8	24	50

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters



Aquaobra Plus®

Plasticised PVC hose, reinforced internally by a polyester mesh.

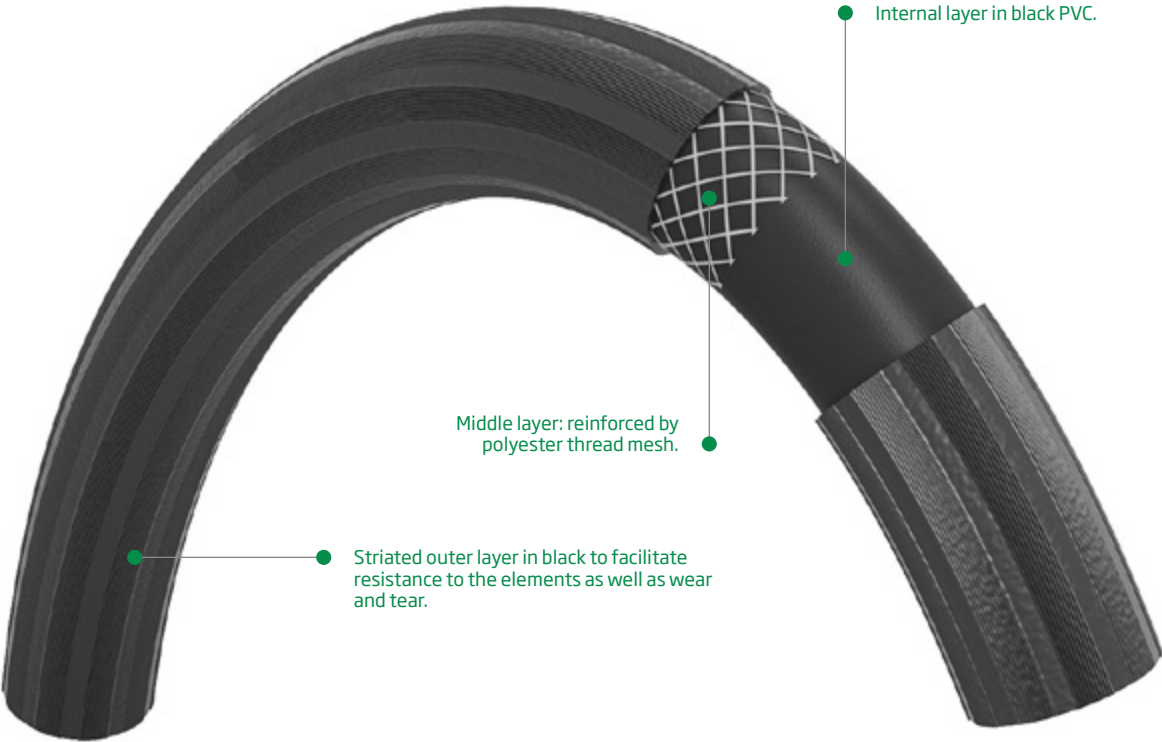
Applications

- Construction.
- Irrigation and sprinkling in general, gardening, horticulture and floriculture.

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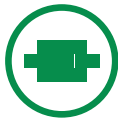
AQUAOBRA PLUS®

ESPIROFLEX. MANUFACTURE OF FLEXIBLE HOSES



Features

- Hose internally reinforced by a polyester mesh that can withstand considerable pressures, affording it resistance to breakage when extended.
- Good chemical resistance associated with PVC's resistance chart.
- Highly flexible and easy to handle.
- Striated outer layer in black to facilitate resistance to the elements as well as wear and tear.
- Withstands temperatures between -10°C and 60°C.



CONSTRUCTION



STRIATED



HIGH PRESSURES



EASY TO USE



HIGH QUALITY CONTROL



FREE FROM Cd / Pb / Ba

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AQUAOBRA PLUS®

ESPIROFLEX. MANUFACTURE OF FLEXIBLE HOSES

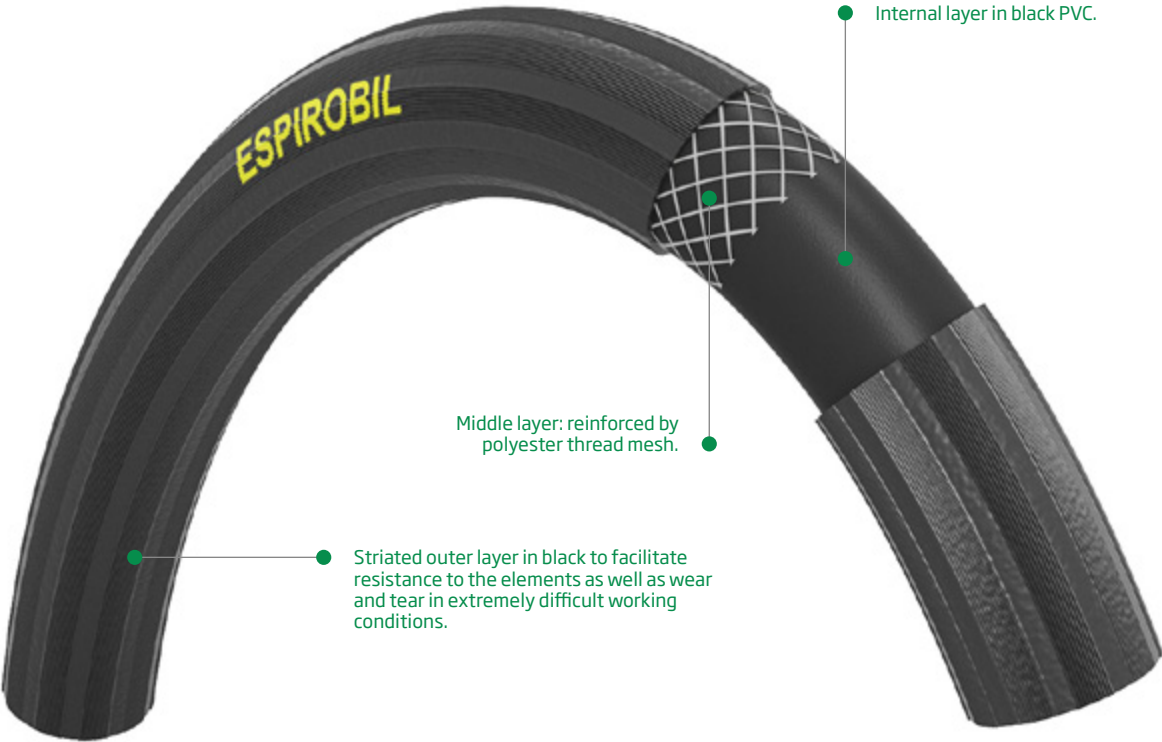


INT Ø mm	INT Ø in	EXT Ø mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	ROLL LENGTH m
15	5/8"	21	210	8	24	50
19	3/4"	26	300	8	24	50
25	1"	32	385	7	21	50

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Espirobil®

Multi-layer, plasticised PVC hose, reinforced with a polyester mesh. Specifically designed for use in aggressive working conditions due to its great resistance.



Middle layer: reinforced by polyester thread mesh.

Striated outer layer in black to facilitate resistance to the elements as well as wear and tear in extremely difficult working conditions.

Internal layer in black PVC.

Features

- For industrial use and designed especially for the construction industry.
- Highly flexible and easy to handle.
- Striated outer layer in black to facilitate resistance to the elements as well as wear and tear in extremely difficult working conditions.
- Chemical resistance associated with PVC's resistance chart.
- Recommended temperature for use between -10°C and 60°C.



CONSTRUCTION



STRIATED



EASY TO USE



UV PROTECTION



ADVERSE SCENARIOS



HIGH QUALITY CONTROL



FREE FROM Cd / Pb / Ba

Applications

- ▶ Irrigation in very difficult working conditions.
- ▶ Construction, public works, quarries
- ▶ Irrigation and sprinkling in general, gardening, horticulture and floriculture.



INT Ø mm	INT Ø in	EXT Ø mm	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	ROLL LENGTH m
15	5/8"	21	210	8	24	50
19	3/4"	25	255	8	24	50
25	1"	32	385	8	24	50

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

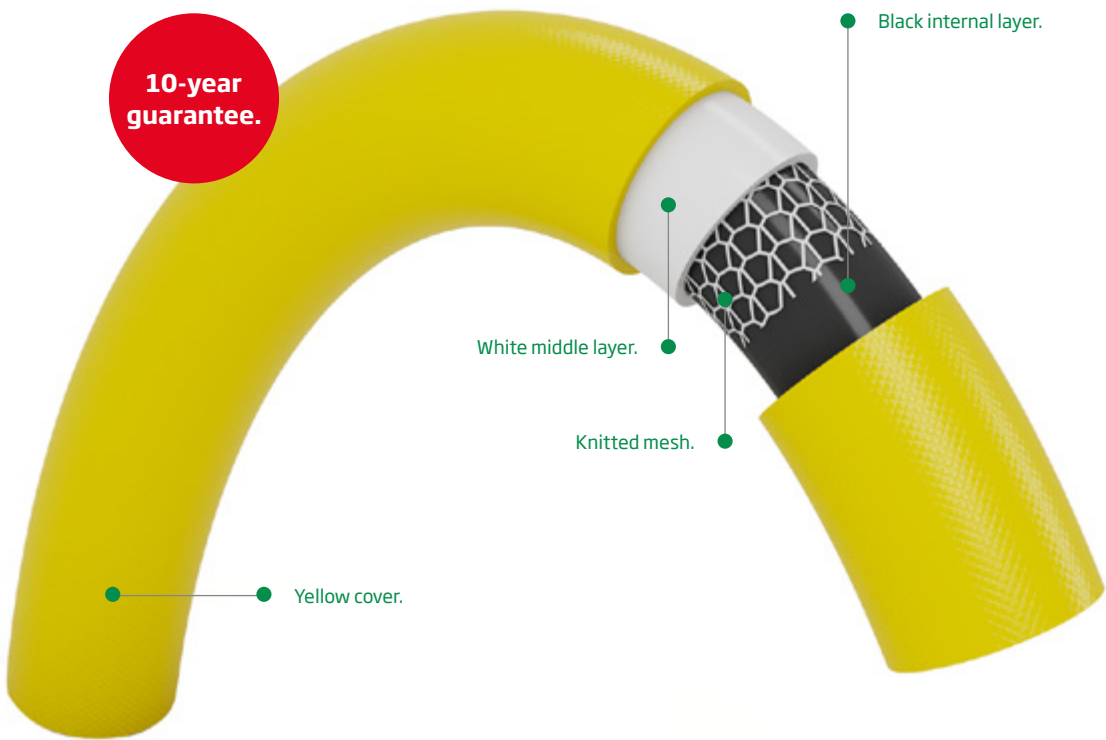


Tricoespir®

Multi-layer, plasticised PVC hose, reinforced by a knitted polyester mesh. Designed especially for gardening.

Applications

► Gardening, horticulture and floriculture irrigation. Domestic facilities and water transport in general.



Features

- For domestic use.
- Reinforced internally by ESPIROFLEX NO TORSION TECHNOLOGY, thanks to a knitted polyester mesh that prevents torsion and folding when used. Highly flexible and easy to handle.
- UV protection.
- Good chemical resistance associated with PVC's resistance chart.
- Withstands temperatures between -10°C and 60°C.



DOMESTIC USE



KNITTED HOSE



ANTI-TORSION



GREATER FLEXIBILITY



ANTI-FOLDING



EASY TO USE



HIGH QUALITY CONTROL



FREE FROM Cd / Pb / Ba



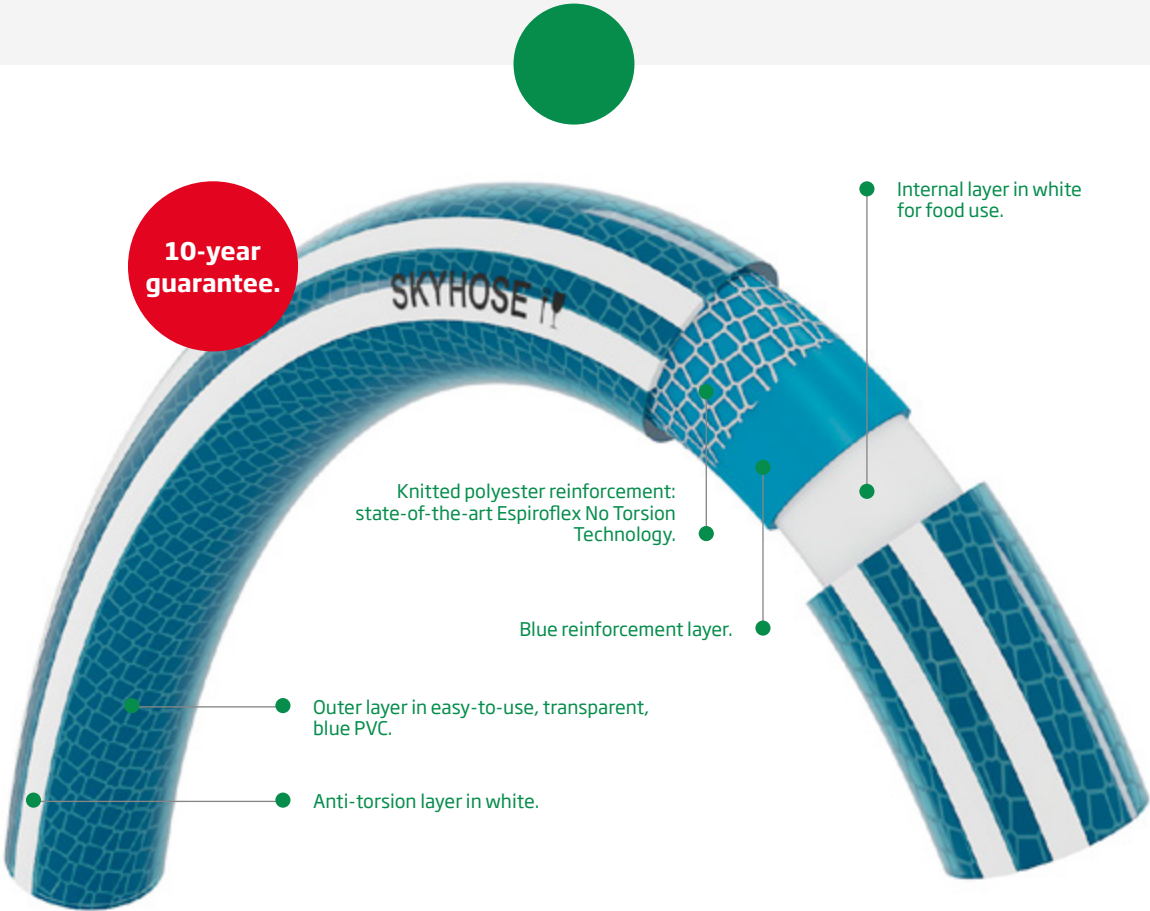
10-YEAR GUARANTEE

INT Ø mm	INT Ø in	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	ROLL LENGTH m
12.5	1/2"	155	10	30	25-50
15	5/8"	175	8	24	25-50
19	3/4"	250	8	24	25-50
25	1"	420	6	18	25-50

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Skyhose®

Superior-quality, knitted hose designed especially for gardening. For food use, with UV and anti-algae protection. Comprised of five layers and equipped with a special knitted system - ESPIROFLEX SINE TORSION TECHNOLOGY - that makes it completely resistant to knots and folding.



Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011 (see declaration of conformity).
- Good chemical resistance associated with PVC's resistance chart.
- Reinforced internally by ESPIROFLEX NO TORSION TECHNOLOGY, thanks to a knitted polyester mesh that prevents torsion and folding when used.
- Withstands temperatures between -10°C and 60°C.



DOMESTIC USE



FOOD USE



KNITTED HOSE



ANTI-TORSION



GREATER FLEXIBILITY



ANTI-FOLDING



HIGH PRESSURES



5 LAYERS



EASY TO USE



HIGH QUALITY CONTROL



FREE FROM Cd / Pb / Ba



10-YEAR GUARANTEE

Applications

- ▶ Intensive gardening, horticulture and floriculture irrigation.
- ▶ Domestic facilities and water transport in general.
- ▶ Transfer of liquid food products that require food simulants A, B and C in OM2 conditions in accordance with Regulation EU 10/2011.

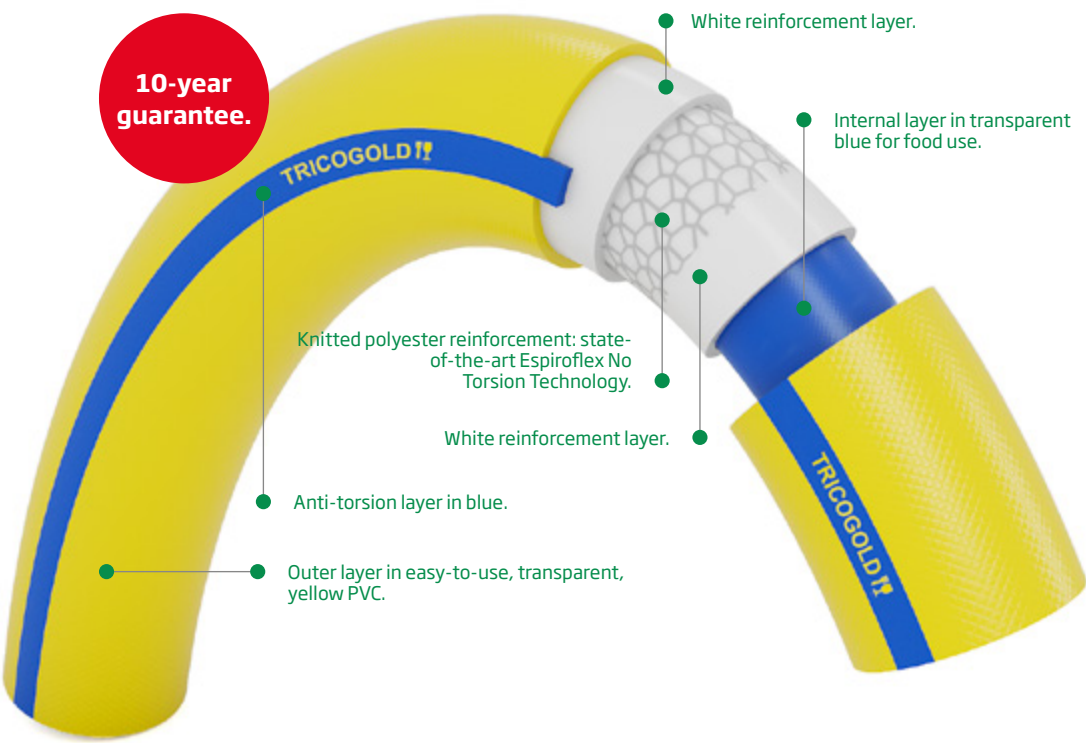


INT Ø mm	INT Ø in	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	ROLL LENGTH m
12.5	1/2"	120	10	30	25-50
15	5/8"	175	10	30	25-50
19	3/4"	250	10	30	25-50
25	1"	420	8	24	25-50

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Tricogold®

Superior-quality, knitted hose designed especially for gardening.
For food use, with UV and anti-algae protection. Comprised of six layers and equipped with a special knitted system - ESPIROFLEX SINE TORSION TECHNOLOGY - that makes it completely resistant to knots and folding.



10-year guarantee.

Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011 (see declaration of conformity).
- UV protection.
- Good chemical resistance associated with PVC's resistance chart.
- Reinforced internally by ESPIROFLEX NO TORSION TECHNOLOGY, thanks to a knitted polyester mesh that prevents torsion and folding when used.
- Withstands temperatures between -10°C and 60°C.

DOMESTIC USE

FOOD USE

KNITTED HOSE

ANTI-TORSION

GREATER FLEXIBILITY

ANTI-FOLDING

HIGH PRESSURES

6 LAYERS

EASY TO USE

HIGH QUALITY CONTROL

FREE FROM Cd / Pb / Ba

10-YEAR GUARANTEE

Applications

- ▶ Intensive gardening, horticulture and floriculture irrigation.
- ▶ Domestic facilities and water transport in general.
- ▶ Transfer of liquid food products that require food simulants A, B and C in OM2 conditions in accordance with Regulation EU 10/2011.

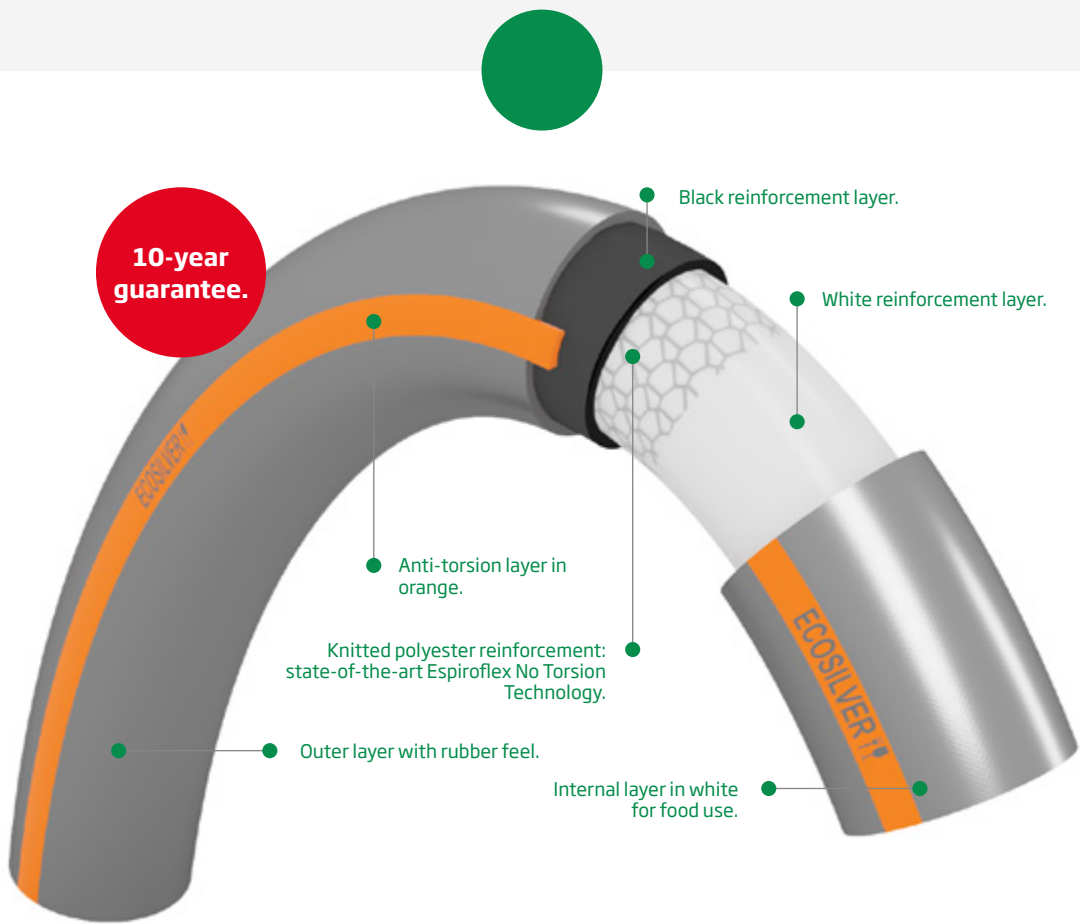


INT Ø mm	INT Ø in	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	ROLL LENGTH m
12.5	1/2"	145	10	30	25-50
15	5/8"	175	10	30	25-50
19	3/4"	250	10	30	25-50
25	1"	420	8	24	25-50

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Ecosilver®

Multi-layer hose made with phthalate-free PVC. Designed especially for domestic gardening. Comprised of six layers and equipped with a special knitted system - ESPIROFLEX NO TORSION TECHNOLOGY - that makes it completely resistant to knots and folding.



Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011 (see declaration of conformity).
- UV protection.
- Good chemical resistance associated with PVC's resistance chart.
- Reinforced internally by ESPIROFLEX NO TORSION TECHNOLOGY, thanks to a knitted polyester mesh that prevents torsion and folding when used.
- Withstands temperatures between -10°C and 60°C.



Applications

- ▶ Intensive gardening, horticulture and floriculture irrigation.
- ▶ Domestic facilities and water transport in general.
- ▶ Transfer of liquid food products that require food simulants A, B, C and D1 in OM2 conditions in accordance with Regulation EU 10/2011.



INT Ø mm	INT Ø in	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	ROLL LENGTH m
12.5	1/2"	145	10	30	25-50
15	5/8"	175	10	30	25-50
19	3/4"	250	10	30	25-50

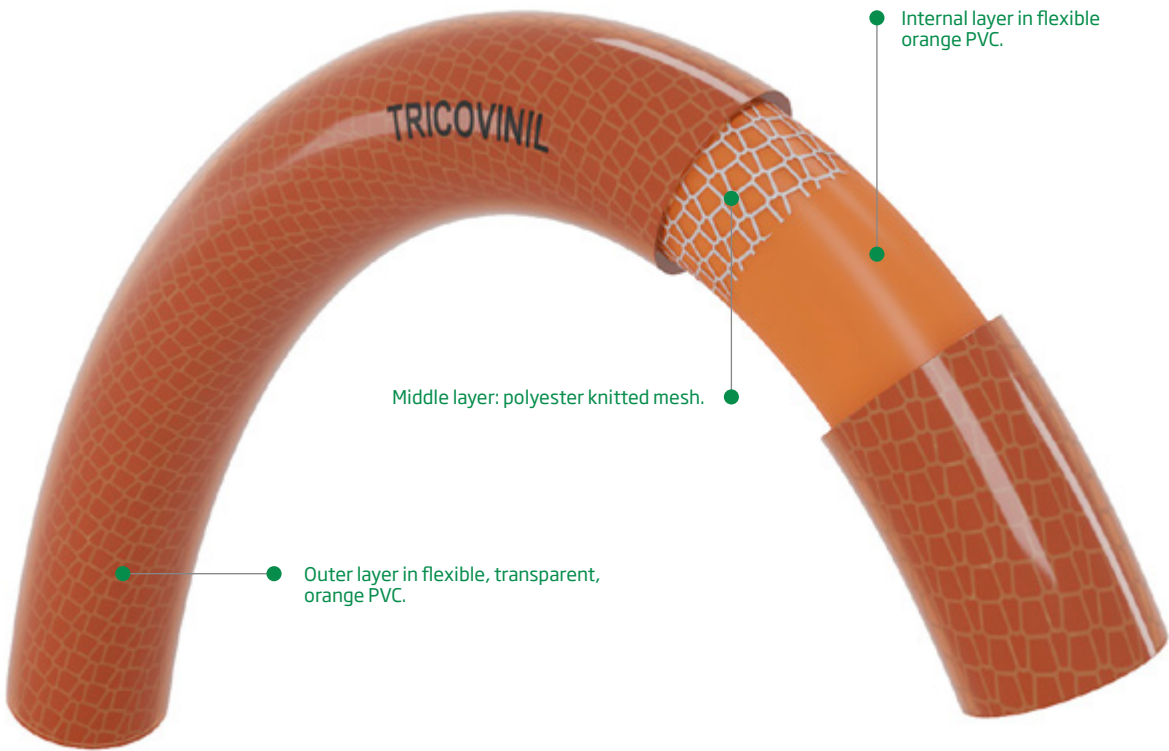
Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Tricovinil®

Red, transparent hose manufactured via the extrusion of vinyl compounds.

Applications

► Gardening, horticulture and floriculture irrigation.



Features

- Red, transparent hose manufactured via the extrusion of vinyl compounds, reinforced internally by a knitted polyester mesh that helps it to withstand pressures of up to 7 bar and grants it resistance to breakage when extended.
- Highly flexible and easy to handle.
- UV protection.
- Resistant to the weather and chemical products.
- Non-toxic but not for food use.
- Withstands temperatures between -10°C and 60°C.



INDUSTRIAL
USE



EASY TO USE



LIGHT



ECONOMIC



HIGH QUALITY
CONTROL

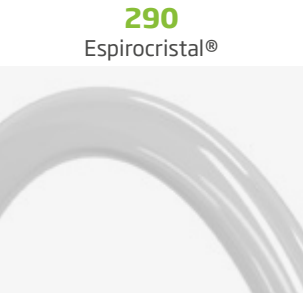


FREE FROM
Cd / Pb / Ba

INT Ø mm	INT Ø in	WEIGHT g/m	OPERATING PRESSURE bar	MINIMUM BURST PRESSURE bar	ROLL LENGTH m
15	5/8"	175	7	21	25-50
19	3/4"	260	7	21	25-50

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Sanitation

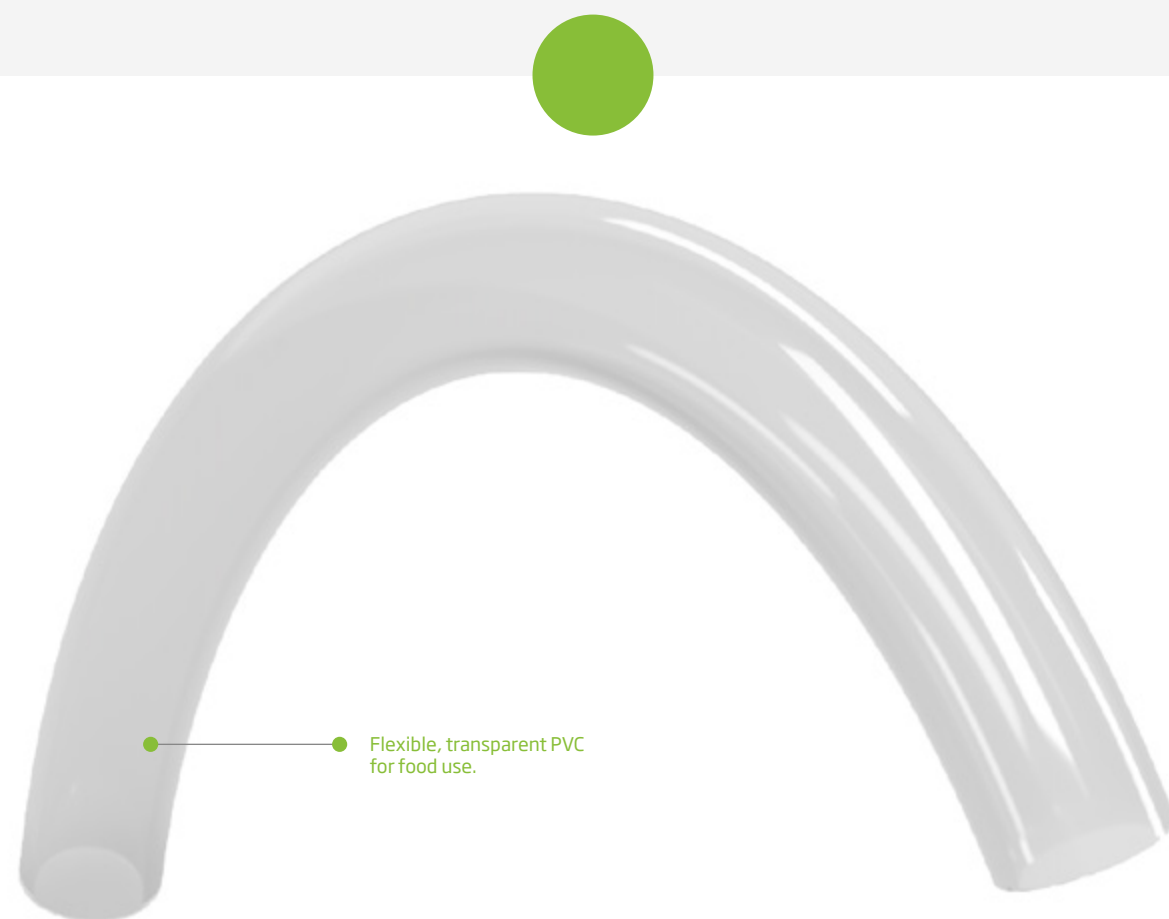


Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features.



Espirocristal®

Monolayer, flexible, plasticised, transparent PVC hose especially for levelling in construction and piping liquids at low pressure.



Flexible, transparent PVC for food use.

Features

- For food use in accordance with European regulations EC 1935/2004 and EU 10/2011 (see declaration of conformity).
- Great flexibility and highly resistant to breakage when extended.
- Good chemical resistance associated with PVC's resistance chart.
- Recommended temperature for use between -10°C and 60°C.



DOMESTIC
USE



FOOD
USE



INDUSTRIAL
USE



CONSTRUCTION



LIGHT



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba

Applications

- Transfer of liquid food products that require food simulants A, B and C in OM2 conditions in accordance with Regulation EU 10/2011, such as wine, must, beer, vinegar and alcoholic liquids up to 20°.
- Industry in general and as a level in the construction industry.

Ø INT mm	Ø INT in	Ø EXT mm	WEIGHT g/m
2	5/64"	4	12±1
3	1/8"	5	16±1
4	11/64"	6	20±1
4	11/64"	7	32±2
5	11/64"	7	24±2
5	13/64"	8	39±2
6	1/4"	8	28±2
6	1/4"	9	45±2
6	1/4"	10	62±3
7	9/32"	9	32±2
7	9/32"	10	49±3
8	5/16"	10	35±2
8	5/16"	11	55±3
8	5/16"	12	78±4
8	5/16"	14	128±7
9	3/8"	12	61±3
10	3/8"	12	43±2
10	3/8"	13	67±3
10	3/8"	14	93±5
12	1/2"	15	78±4
12	1/2"	16	108±6
12	1/2"	18	174±9
13	5/8"	19	186±10
14	5/8"	18	124±6
15	5/8"	19	132±7
15	5/8"	20	169±9
16	5/8"	20	139±7
18	5/8"	23	198±10
18	5/8"	25	291±15
20	3/4"	25	218±11
25	1"	31	325±16
30	1" 1/8	38	526±26
50	2"	60	1065±54

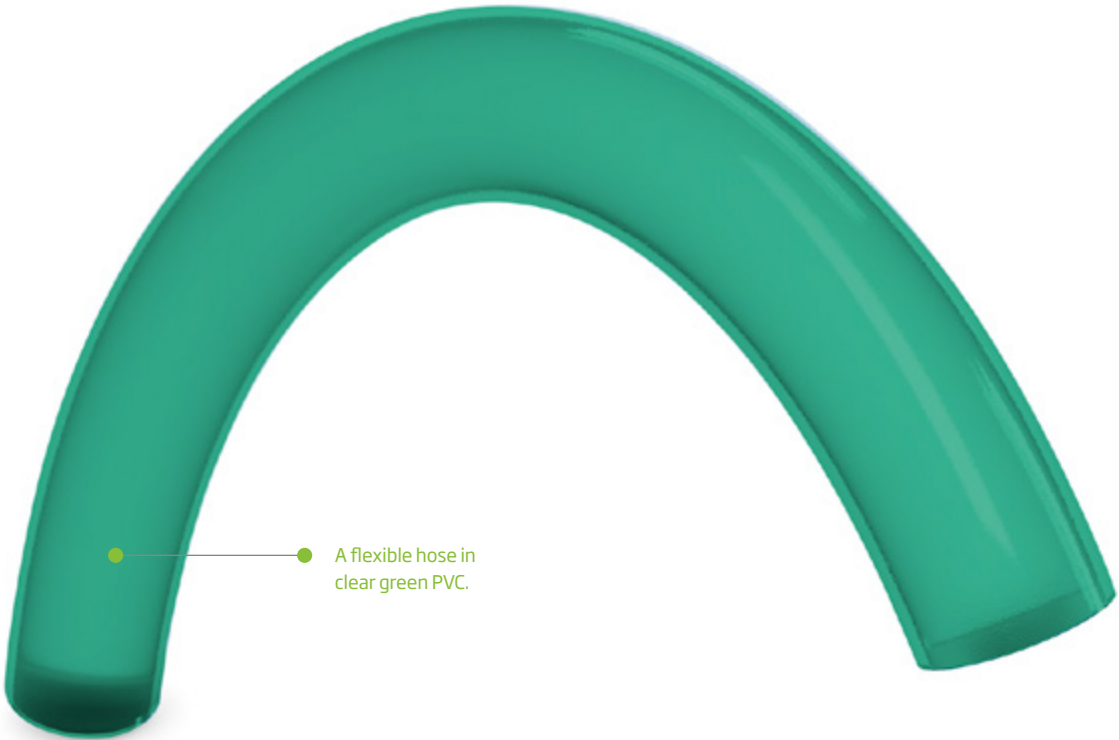
Pressure at room temperature in laboratory. Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Espirocristal® Gasolina

Flexible, monolayer hose made using transparent, plasticised PVC with improved resistance to hydrocarbons.

Applications

► Low pressure gasoline lines.



A flexible hose in clear green PVC.

- For industrial use.
- Great flexibility and highly resistant to breakage caused by extension.
- Especially designed for the transfer of fuels and their by-products.
- Good chemical resistance associated with PVC's resistance chart.
- Recommended temperature for use between -10°C and 60°C.



RESISTANT TO HYDROCARBONS



FOOD USE



INDUSTRIAL USE



CONSTRUCTION



LIGHT



HIGH QUALITY CONTROL



FREE FROM Cd / Pb / Ba

INT Ø mm	INT Ø in	EXT Ø mm	WEIGHT g/m	BENDING RADIUS mm
4	11/64"	8	46	16
5	13/64"	9	54	18
6	1/4"	10	64	20
7	9/32"	12	92	25
8	5/16"	12	78	25

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Espirogas®

Multi-layer, plasticised PVC hose, especially designed to resist aliphatic hydrocarbons, particularly butane and propane, at low pressures.



Features

- Complies with permeability, flexibility and flammability that ensure the product's great quality.
- Highly resistant to breakage when extended, traction (7.5 MPa) and pressure at high temperatures.
- Anti-knotting.
- Hose with product certification awarded by AENOR in accordance with UNE 53539.
- Available for piping liquefied petroleum gases (3rd family), including butane and propane, at low pressures, and for piping natural gas (2nd family version in white) at low pressures.



DOMESTIC
USE



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba

Applications

- Piping liquefied petroleum gases (LPG) and natural gas at low pressure.
- Supplying domestic apparatus with butane and outdoor heating.



INT Ø mm	INT Ø in	WALL THICKNESS mm	WEIGHT g/m	COLOUR	GAS TYPES
9	3/8"	3	138	Orange	Butane/Propane
15	5/8"	3.5	250	White	Natural gas



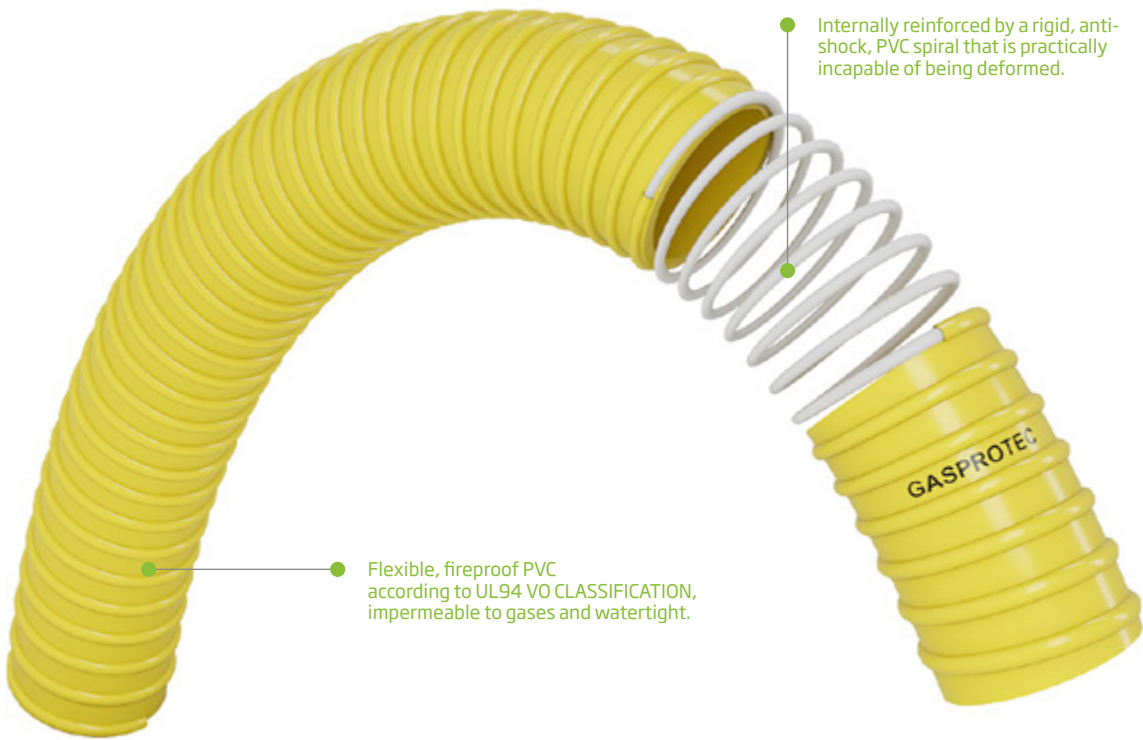
Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Gas Protect®

Flexible, PVC hose reinforced with a rigid, anti-shock PVC spiral that is used as a protective sheath in copper piping facilities embedded in walls.

Applications

- Flexible protective sheath for copper piping facilities embedded in walls. Supplied in rolls of 25 m. A safety gap 5 mm thick is recommended between the copper pipe and the sheath (see recommended copper piping diameters in the following table).



Internally reinforced by a rigid, anti-shock, PVC spiral that is practically incapable of being deformed.

Flexible, fireproof PVC according to UL94 V0 CLASSIFICATION, impermeable to gases and watertight.

Features

- For industrial use, especially in the construction industry.
- Almost incapable of being deformed by crushing.
- Resistant to blows.
- Self-extinguishing in accordance with UL94 V0 classification.
- Good chemical resistance associated with PVC's resistance chart (including the most common copper strippers).
- Temperature range between -10°C and 60°C.



LIGHT



EASY TO USE



VERY FLEXIBLE



TEMPERATURE
-10°C TO 60°C



PVC
SPIRAL



HIGH QUALITY
CONTROL

INT Ø mm	INT Ø in	EXT Ø mm	WEIGHT g/m	BENDING RADIUS mm
27	1"	32	180	27
32	1" 1/4	40	250	32
38	1" 1/2	47	310	38

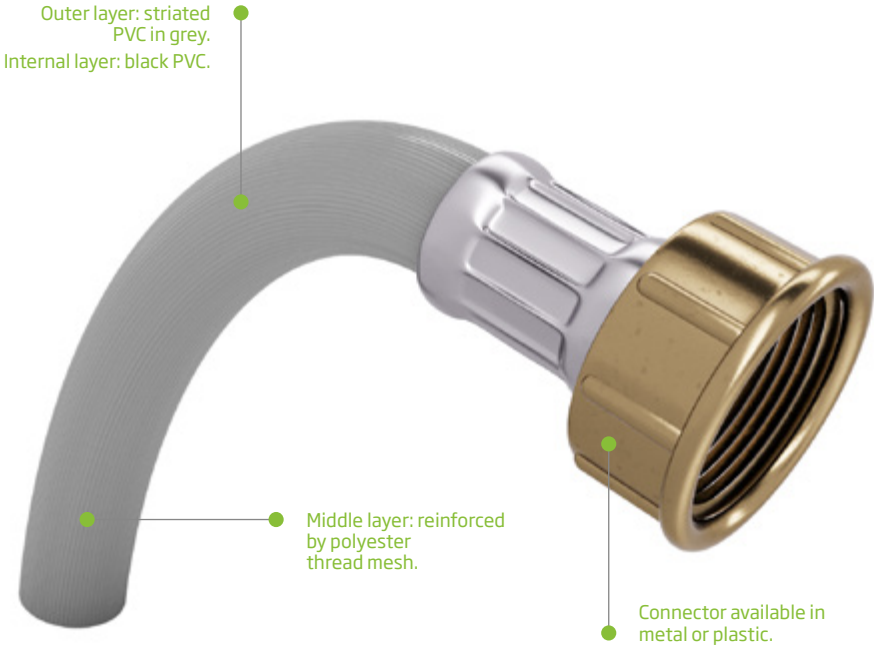
Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Washing Machine Inlet

Hose made via the extrusion of plasticised PVC and internally reinforced by a polyester mesh.

Applications

- Supply of water to washing machines and dishwashers.



Features

- For sanitary use.
- Striated external surface.
- Assembly with perfectly watertight nylon or metal connections.
- Good chemical resistance associated with PVC's resistance chart.
- Recommended temperature for use between -10°C and 25°C.



Pack

LENGTH	1.5 m	2 m	2.5 m	3 m
UNITS	50	50	40	35
INT Ø mm	11	7/16"	16	150
INT Ø in				15
EXT Ø mm				45
WEIGHT g/m				
OPERATING PRESSURE bar				
MINIMUM BURST PRESSURE bar				

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances. Depending on technical developments, specifications may be modified without advance notice being given. Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Washing Machine Drain

Drain for washing machines and dishwashers. Polypropylene hose with connections in thermoplastic rubber.



Features

- Highly flexible and easy to use.
- 100% recyclable.
- Injected connectors, made from thermoplastic rubber, in the hose to ensure it is perfectly watertight.
- Good chemical resistance associated with polypropylene's resistance chart. Especially to bleaches, detergents and hypochlorites.
- Withstands temperatures between -10°C and 90°C.



DOMESTIC
USE



INDUSTRIAL
USE



EASY TO USE



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba

Applications

- Drain for washing machines and dishwashers.



Available
in bag or
blister pack.

Ø INT mm	INT Ø in	Ø EXT mm	INT Ø NOZZLE "A" mm	INT Ø NOZZLE "B" mm
20	3/4"	25	19	22

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters



Espiroflex[®] Aluminio Compacto

Corrugated, aluminium hose designed for the suction of domestic and industrial gases and smoke, as well as general ventilation.

Applications

► Suction of domestic and industrial gases and smoke.

Can be
cut into
sections and
shrink-
wrapped.

Features

- Resistant to bending and watertight at temperatures of 300°C.
- Highly flexible and light, ensuring ease of use.
- Extendible: ratio of 20cm = 1 metre.
- Compacted.



DOMESTIC
USE



INDUSTRIAL USE



EASY TO USE



HIGH QUALITY
CONTROL



FREE FROM
Cd / Pb / Ba

INT Ø mm	INT Ø in	EXT Ø mm	WALL THICKNESS mm	SUPPLY m
80	3" 1/8	89	4.5	150
90	3" 1/2	99	4.5	125
100	4"	109	4.5	100
110	4" 5/16	119	4.5	80
120	4" 3/4	129	4.5	80
127	5"	134	4.5	80
130	5" 1/4	139	4.5	60
140	5" 1/2	149	4.5	45
152	6"	159	4.5	45
160	6" 1/4	169	4.5	45
180	7"	189	4.5	30
203	8"	209	4.5	20
225	9"	234	4.5	20
254	10"	259	4.5	20
305	12"	309	4.5	10
350	14"	359	4.5	5
400	16"	409	4.5	5
450	18"	459	4.5	5

Pressure at room temperature in laboratory / Nominal values without considering manufacturing tolerances.
Depending on technical developments, specifications may be modified without advance notice being given.
Consult us for other diameters, colours and features. Ask our Sales Department about the minimum purchase amounts assigned to non-standard diameters

Technical Specifications

Products According to Material
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**Chemical Product
Resistance Chart**
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European Regulations
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Certificates
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Products According to Material



PRODUCT	PVC OIL	PVC TPU NBR	PRODUCT	PVC OIL	PVC TPU NBR	PRODUCT	PVC OIL	PVC TPU NBR	PE EVA	PP
Transliquid®	•		Espiroliquid® PU		•	Espiropres® PU Conductivo		•		
Transliquid® S	•		Espiroseeder®	•		Espiropres® Oxygen		•		
Transliquid® Superelástico			Espiroseeder® PU		•	R.I.A.®	•			
Transliquid® Antiestático	•		Poliuretano Flex® 0.4 ET		•	Oxígeno	•			
Transliquid® PU		•	Poliuretano Flex® BS 0.4 ET		•	Acetileno	•			
Transliquid® PU Antiestático		•	Poliuretano Flex® BS 0.4 EST		•	Bitubo	•			
EspiroKit Suction	•		Poliuretano Flex® M 0.7 ET		•	Mallatrans®	•			
Lisflex®	•		Poliuretano Flex® RD 0.7 EST		•	Mallatrans® EVA				
Agromedium®	•		Poliuretano Flex® H 1.1 ET		•	Hidrotubo®	•			
Transfort®	•		Poliuretano Flex® H 1.1 EST		•	Hidrotubo® Plus	•			
Transfort® Antiestático	•		Poliuretano Flex® 1.6 HD ET		•	Hidrotubo® Especial Termitas	•			
Transfort® PU	•	•	Poliuretano Flex® 1.6 HD EST		•	Hidrotubo® Plus Especial Termitas	•			
Transfort® Superelástico		•	Poliuretano Flex® Rock 2.0 EST		•	Espiropool Protect®	•			
Transfort® Superelástico Antiestático		•	Poliuretano Flex® Rock 2.5 EST		•	Transflot®				•
Transfort® Superflex		•	Espiro® PU ET		•	Transflot® Bicolor				•
Espirotiger®		•	Espiro® PU EST		•	Espiroflot®				•
Espirolayflat®	•		Espiro® PU Antiestático		•	Transflot® Seccionable				•
Waterflat® L	•		Espiroair®	•		Transflot® E.A.				•
Waterflat® M	•		Espiroair® Antiestático	•		Espirokit Limpiafondos®				•
Waterflat® H	•		Espiroair® Oil		•	Espiroaspersión®	•			
Espiroflat® Rubber		•	Espiroair® UL94 VO	•		Espirojardín®	•			
Sodigom®		•	Vacumflex®	•		Espirojardín Azul®	•			
Transvin® Phthalates Free	•		Extraflex®	•		Supervinil® Rústica				•
Transvin® Phthalates Free Sliding	•		Espiroreno®	•		Flexijardín®	•			
Transvin® Superelástico Phthalates Free	•		Superflex Air®	•		Texovinil® Roja	•			
Transmetal® Protect	•		Thermoflex®	•		Espirolatex®	•			
Transmetal® Phthalates Free	•		Espirosilicone®	•		Mallalatex®	•			
Transmetal® NT Phthalates Free	•		EspiroEVA®		•	Espirgarden®	•			
Transmetal® PU	•	•	Espiropres® 10 bar	•		Yellowgarden®	•			
Transmetal® PU Olive Oil	•	•	Agripres® 20 bar	•		Espirnautic®	•			
Espirofood® PU	•	•	Espiropres® 20 bar	•		Blackgarden®	•			
Metalpress® Food	•		Espiropres® 40 bar	•		Aquaobra Plus®				•
Metalpress® Oil		•	Pulveflex® 80 bar	•		Espirobil®				•
Metalpress® Milk			Espiropres® 20 bar Rubber		•	Tricoespir®	•			
Metalpress® Wine	•		Espirocord® Gom		•	Skyhose®	•			
Metalpress® Chemical		•	Espiroclean® 40 bar	•		Tricogold®	•			
Metalpress® Superelástico		•	Espiroclean® 80 bar	•		Ecosilver®	•			
Metalpress® Marine	•		Espiropres® PU		•	Tricovinil®	•			
Fishflex®	•					Espirocristal®	•			
Espirofuel®	•					Espirocristal® Gasolina	•			
Espirofuel® Antiestático	•					Espirogas®	•			
						Gas Protect®	•			
						Washing Machine Inlet	•			
						Washing Machine Drain				•

Specific Applications of TPU



Understanding the main characteristics and differences between polyurethane hoses, depending on whether their base is polyester or polyether, allows you to choose the correct product for each specific application, and therefore improve the product's performance and useful life. A comparison chart is shown below.

Polyester base

- Extraction of fatty vapours or vapours containing chemical products.
- Applications that require greater resistance to abrasion in equal hardness (with exceptions).
- Better mechanical properties.



Polyether base

- Extraction in humid environments.
- Applications that require great flexibility at low temperatures.
- High resistance to tearing.



Chemical Product Resistance Chart



RESISTANCE CHART

308

CHEMICAL PRODUCT

ESPIROFLEX. MANUFACTURE OF FLEXIBLE HOSES



CHEMICAL PRODUCTS	PVC	PU	TPV	PVC OIL
1,4-Dioxane			R	
1-Nitropropane			LR	
1-Propanol			R	
2,4-Pentanediol			R	
2-Ethylhexanol			R	
2-Pyrrolidone			R	
Animal oil		NR	LR	
Oil ASTM 1	LR	R		R
Oil ASTM 2	LR	R		R
Oil ASTM 3	NR	R		R
Olive oil			NR	
Silicone oil		R	NR	
Transformer oil			NR	
Hydraulic oil		R		
Mineral oil	NR	SR	LR	R
Seed oil	LR	SR		R
Lubricating oils (petroleum)	NR	LR		R
Vegetable oils		R		
Acetaldehyde	NR	NR		NR
Acetamide		R		
Aluminium acetate	R			R
Amyl acetate	NR			NR
Butyl acetate			R	
Calcium acetate	R			R
Ethyl acetate	NR		LR	NR
Sodium acetate	R			R
Alkyl acetates	NR	NR		NR
Acetone	NR	R	LR	NR
Acetonitrile	NR		LR	NR
Acetic acid 3%	R	R	R	R
Acetic acid 5%	R		R	R
Acetic acid 10%	R		R	R
Acetic acid 30%	LR	NR	R	LR
Acetic acid 50%	LR	NR	R	LR
Acetic acid 80%	LR	NR	R	LR
Conc. acetic acid	NR	NR	R	NR

CHEMICAL PRODUCTS	PVC	PU	TPV	PVC OIL
Adipic acid	R			R
Benzoic acid	LR			LR
Boric acid 10%	R	LR		R
Boric acid 5%	R	R		R
Conc. boric acid	R			R
Hydrobromic acid, aqu. sol. 30%	R			R
Hydrobromic acid, aqu. sol. 50%	R	NR		R
Butyric acid 20%	R		R	R
Conc. butyric acid			R	
Carbonic acid 5%	R	R		R
Conc. carbonic acid	R			R
Citric acid 5%	R	R		R
Hydrochloric acid 5%	R	R	R	R
Hydrochloric acid 10%	R	LR	R	R
Hydrochloric acid 20%	R	NR	R	R
Hydrochloric acid 22%	R	NR		R
Conc. hydrochloric acid	R	NR	R	R
Chloroacetic acid	NR			NR
Conc. chlorosulfonic acid	NR			NR
Chromic acid 5%	R	R		R
Chromic acid 10%	LR			LR
Stearic acid	R			R
Hydrofluoric acid 4%	R			R
Hydrofluoric acid 20%	LR	NR		LR
Hydrofluoric acid 30%	LR	NR		LR
Hydrofluoric acid 40%	NR	NR		NR
Hydrofluoric acid 60%	NR	NR		NR
Formic acid 10%	LR	NR	R	LR
Formic acid 20%	LR	NR	R	LR
Formic acid 25%	NR	NR	R	NR
Formic acid 85%	NR	NR	R	NR
Conc. formic acid	NR	NR	R	NR
Phosphoric acid 5%	R			R
Phosphoric acid 20%	R			R
Phosphoric acid 30%	R			R
Phthalic acid	NR	NR		NR

NR: No resistance / SR: Specific resistance / LR: Low resistance / : Resistant

RESISTANCE CHART

309

CHEMICAL PRODUCT

ESPIROFLEX. MANUFACTURE OF FLEXIBLE HOSES



CHEMICAL PRODUCTS	PVC	PU	TPV	PVC OIL
Hypochlorous acid 20%	R			R
Conc. hypochlorous acid, aqu. sol.	R			R
Lactic acid, aqu. sol. 3%	R			R
Lactic acid, aqu. sol. 10%	R	R		R
Nitric acid 5%	R	LR	R	R
Nitric acid 10%	R	NR	R	R
Nitric acid 20%	R	NR	R	R
Nitric acid 30%	R	NR	LR	R
Nitric acid 50%	R	NR	LR	R
Nitric acid 70%	NR	NR	NR	NR
Nitric acid 95%	NR	NR	NR	NR
Oleic acid	NR	NR		R
Oxalic acid	R	NR		R
Peracetic acid	NR	NR	NR	NR
Sulphuric acid 5%	R	R	R	R
Sulphuric acid 20%	R	NR	R	R
Sulphuric acid 25%	R	NR	R	R
Sulphuric acid 50%	LR	NR	R	LR
Sulphuric acid 70%	NR	NR	R	NR
Sulphuric acid 80%	NR	NR	R	NR
Sulphuric acid 96%	NR	NR	R	NR
Sulphuric acid 98%	NR	NR	R	NR
Conc. fuming sulphuric acid	NR	NR		NR
Fatty acids (>C6)	R			R
Ethyl acrylate	NR		R	NR
Acrylonitrile			R	
Diocetyl adipate			R	
Water	R	R	R	R
Seawater	R	R	R	R
Air	R	R	R	R
Allyl alcohol (2-propanol-1)	NR		R	NR
Amyl alcohol	R		R	R
Benzyl alcohol	NR			NR
Butyl alcohol	LR	R		LR
Ethyl alcohol 10%	R		R	R
Ethyl alcohol 35%	R		R	R

NR: No resistance / SR: Specific resistance / LR: Low resistance / : Resistant

CHEMICAL PRODUCTS	PVC	PU	TPV	PVC OIL
Ethyl alcohol 40%	R		R	R
Ethyl alcohol 50%	SR	LR	R	R
Ethyl alcohol 96%	NR	NR	R	NR
Ethyl alcohol, max. conc.	NR	NR	R	NR
Isobutyl alcohol	R	LR		R
Isopropyl alcohol	R	LR		R
Methyl alcohol 5%	R		R	R
Methyl alcohol 6%	R	NR	R	R
Methyl alcohol 50%			R	
Methyl alcohol, max. conc.			R	
Aldehydes	NR	NR		NR
Alum	R	R		R
Ammonia (gas)	NR	R		NR
Liquid ammonia			R	
Acetic anhydride	NR	NR		NR
Carbon dioxide	R	R		R
Sulphur dioxide	R	LR		R
Aniline			R	
Sulphur	R	R		R
Benzene	NR			NR
Benzaldehyde	NR	NR		NR
Calcium bisulphate	R	NR		R
Sodium bisulphate	R	NR		R
Bisulphates and met. bisulphates	R			R
Borax 5%	R	R		R
Conc. borax	R			R
Bromine	NR	NR		NR
Alkyl bromide	NR	NR		NR
Ethylene bromide	NR			NR
Butanediol 100%	NR			NR
Butylamine		LR		
Caprolactone			R	
Calcium carbonate	R	R		R
Ammonium carbonate	R			R
Sodium carbonate	R	R		R
Magnesium carbonate	R	R		R

TECHNICAL SPECIFICATIONS

CHEMICAL PRODUCTS	PVC	PU	TPV	PVC OIL
Casein	R			R
Beer	R	R		R
Ketones	NR	NR		NR
Sodium cyanide	R	R		R
Cycloalkanes	NR	NR		NR
Cyclic alcohols	NR	NR		NR
Cyclic ketones	NR	NR		NR
Cyclohexane	NR	LR	NR	NR
Cyclohexanol		NR	R	
Cyclohexanone	NR	NR		NR
Chlorine 100%, dry gas	NR	NR		NR
Wet chlorine		NR		
Chloroform	NR			NR
Chloroparaffins c14-c17	NR		R	NR
Acetyl chloride			LR	
Aluminium chloride 25%		R		
Ammonium chloride 25%		R		
Calcium chloride 20%	R	R	R	R
Calcium chloride 25%	R	R		R
Calcium chloride, sat. sol.	R			R
Ethyl chloride			NR	
Mercury chloride	NR	R		NR
Methylene chloride		NR	NR	
Methyl chloride		NR		
Potassium chloride		R		
Sodium chloride 20%	R		R	R
Sodium chloride 25%	R	LR		R
Conc. sodium chloride	R			R
Zinc chloride 20%	R		R	R
Conc. zinc chloride	R			R
Iron(III) chloride		R		
Cresol	NR	NR		NR
Decalin			NR	
Concentrated detergents	R	R	R	R
Dextrin	R			R
Dextrose	R			R

NR: No resistance / SR: Specific resistance / LR: Low resistance / : Resistant

CHEMICAL PRODUCTS	PVC	PU	TPV	PVC OIL
Dibromomethane			NR	
Dibutyl ether			R	
Dichloroethane		R		
Potassium dichromate 40%	R	R		R
Potassium dichromate, all conc.	R	R		R
Diethylamine		NR		
Diethyl ketone	NR			NR
Diethylene glycol		LR	R	
Diisobutylene			NR	
Diisopropyl ether			LR	
Dimethylformamide	NR	NR	R	NR
Dimethylformamide			R	
Diocetyl sebacate		R		
Dioxane	NR			NR
Carbon dioxide	R	R		R
Dipropylene glycol			R	
Chlorinated solvents	NR			NR
Carbon disulphide			LR	
Dodecanol	R			R
Emulsifiers	R			R
Aliphatic esters	NR			NR
Ethane		LR		
Diethyl ether		NR		
Diethyl ether			R	
Ethyl ether		NR		
Isopropyl ether		R		
Phenylamine		R		
Phenol		NR	R	
Fluoride	NR			NR
Formaldehyde 20%		LR		
Formaldehyde 30%	R	LR		R
Formaldehyde 37%	R	NR		R
Formaldehyde 40%	LR	NR		LR
Formamide			R	
Freon 11 (coolant)		NR	NR	
Freon 12 (coolant)		R	NR	
Freon 22 (coolant)		NR	NR	
Fructose	R			R
Phthalates	SR	R		R
Fuel oil	NR	LR	R	R
Furan			LR	
Liquefied petroleum gas (LPG)	LR			LR
Natural gas		LR		
Diesel and biodiesel	NR	R		R
Gasoline		LR		
Gelatin		R		
Glycerine	R	R		R
Glycerol	R		R	R

CHEMICAL PRODUCTS	PVC	PU	TPV	PVC OIL
Freon 22 (coolant)		NR	NR	
Fructose	R			R
Phthalates	SR	R		R
Fuel oil	NR	LR	R	R
Furan			LR	
Liquefied petroleum gas (LPG)	LR			LR
Natural gas		LR		
Diesel and biodiesel	NR	R		R
Gasoline		LR		
Gelatin		R		
Glycerine	R	R		R
Glycerol	R		R	R
Ethylene glycol	R	R	R	R
Isopropyl ether		R		
Phenylamine		R		
Phenol		NR	R	
Fluoride	NR			NR
Formaldehyde 20%		LR		
Formaldehyde 30%	R	LR		R
Formaldehyde 37%	R	NR		R
Formaldehyde 40%	LR	NR		LR
Formamide			R	
Freon 11 (coolant)		NR	NR	
Freon 12 (coolant)		R	NR	
Freon 22 (coolant)		NR	NR	
Fructose	R			R
Phthalates	SR	R		R
Fuel oil	NR	LR	R	R
Furan			LR	
Liquefied petroleum gas (LPG)	LR			LR
Natural gas		LR		
Diesel and biodiesel	NR	R		R
Gasoline		LR		
Gelatin		R		
Glycerine	R	R		R
Glycerol	R		R	R

NR: No resistance / SR: Specific resistance / LR: Low resistance / : Resistant

CHEMICAL PRODUCTS	PVC	PU	TPV	PVC OIL
Ethylene glycol	R	R	R	R
Glycols		LR		
Animal fats		R		
Lithium, sodium and calcium fats		R		
Silicone fats		R		
Hexane	NR	R		NR
Hydrazine	NR	NR		NR
Aromatic hydrocarbons	NR		NR	NR
Hydrogen		R		
Hydroquinone	R	NR		R
Aluminium hydroxide	R			R
Ammonium hydroxide 5%	R		R	R
Ammonium hydroxide 10%	R		R	R
Ammonium hydroxide 25%	R		R	R
Ammonium hydroxide 28%	R		R	R
Ammonium hydroxide 30%			R	
Conc. ammonium hydroxide			R	
Calcium hydroxide	R			R
Potassium hydroxide 5%	R	R	R	R
Potassium hydroxide 10%	R		R	R
Potassium hydroxide 50%	R			R
Conc. potassium hydroxide	R			R
Sodium hydroxide (soda) 5%	R	R	R	R
Sodium hydroxide (soda) 10%	R	LR		R
Sodium hydroxide (soda) 20%	R	NR	R	R
Sodium hydroxide (soda) 50%		NR		
Conc. sodium hydroxide (soda)		NR		
Calcium hypochlorite	R	LR		R
Sodium hypochlorite 14% Cl2	R	NR	R	R
Sodium hypochlorite 15% Cl2	R	NR		R
Sodium hypochlorite, sat. sol.	R			R
Liquid soaps	R	NR		R
Solvent-based varnishes		R		
Lanolin	R			R
Bleach, alkaline sol.		R		
Potassium manganate	R	R		R

CHEMICAL PRODUCTS	PVC	PU	TPV	PVC OIL
Methyl methacrylate			R	
Methane		R		
Butanone		R	LR	
Naphtha		LR		
Naphthalene			NR	
Ammonium nitrate 25%	R	R		R
Ammonium nitrate, sat. sol.	R			R
Calcium nitrate 50%		R		
Conc. calcium nitrate		R		
Sodium nitrate	R	R		R
Sodium nitrite	NR	NR		NR
Nitrogen	R	R	R	R
Oleum		NR		
Ethyl oxalate		R		
Propylene oxide			LR	
Sulphur oxides	R	R		R
Oxygen	R	R	R	R
Ozone	LR	R		LR
Paraffin	R	R		R
Pentane		NR		
Sodium perborate	R	R		R
Perchloroethylene		NR	NR	
Potassium permanganate 10%	R	LR		R
Hydrogen peroxide, 30 vol	R	LR		R
Ammonium persulphate	R			R
Petroleum		LR		
Pyridine			R	
Tetraethyllead	R	R		R
Potassium	R	R		R
Propionitrile			NR	
Kerosene	NR	R		R
Epoxy resin		NR		
Diethyl sebacate	NR	NR		NR
Cider	R	R		R
Aluminium silicate	R	R		R
Potassium silicate	R	R		R
Sodium silicate	R	R		R
Silicone	NR	NR		NR
Soap solution (all conc.)		R		
Aluminium sulphate		NR		
Ammonium sulphate, sat. sol.		NR		
Copper sulphate, sat. sol.		R		
Potassium sulphate		R		
Ammonium sulphide	R			R
Barium sulphide	R	R		R
Calcium sulphide		R		
Hydrogen sulphide, gaseous	R			R
Iron sulphide	R	R		R
Tannin	R	NR		R

NR: No resistance / SR: Specific resistance / LR: Low resistance / : Resistant



CHEMICAL PRODUCTS	PVC	PU	TPV	PVC OIL
Sodium silicate	R	R		R
Silicone	NR	NR		NR
Soap solution (all conc.)		R		
Aluminium sulphate		NR		
Ammonium sulphate, sat. sol.		NR		
Copper sulphate, sat. sol.		R		
Potassium sulphate		R		
Sodium perborate	R	R		R
Perchloroethylene		NR	NR	
Potassium permanganate 10%	R	LR		R
Hydrogen peroxide, 30 vol	R	LR		R
Ammonium persulphate	R			R
Petroleum		LR		
Pyridine			R	
Tetraethyllead	R	R		R
Potassium	R	R		R
Propionitrile			NR	
Kerosene	NR	R		R
Epoxy resin		NR		
Diethyl sebacate	NR	NR		NR
Cider	R	R		R
Aluminium silicate	R	R		R
Potassium silicate	R	R		R
Sodium silicate	R	R		R
Silicone	NR	NR		NR
Soap solution (all conc.)		R		
Aluminium sulphate		NR		
Ammonium sulphate, sat. sol.		NR		
Copper sulphate, sat. sol.		R		
Potassium sulphate		R		
Ammonium sulphide	R			R
Barium sulphide	R	R		R
Calcium sulphide		R		
Hydrogen sulphide, gaseous	R			R
Iron sulphide	R	R		R
Tannin	R	NR		R

CHEMICAL PRODUCTS	PVC	PU	TPV	PVC OIL
Carbon tetrachloride			NR	
Carbon tetrachloride	NR	NR		NR
Titanium tetrachloride				
Tetrahydrofuran		NR	LR	
Toluene		NR		
Turpentine		R	NR	
Trichloroethylene			NR	
Trichloromethane			NR	
Antimony trichloride	R			R
Triethanolamine		NR		
Trioctyl trimellitate (TOTM)	NR		R	NR
Sodium thiosulfate		R		
Urea (AD BLUE) *	NR	R		R
Urea 30%	NR	NR		R
Vinegar	R			R
Wine	R	SR		R
Whisky	SR	SR		R
White spirit	NR	LR		NR
Xylene		NR	NR	
Methyl iodide			LR	

NR: No resistance / SR: Specific resistance / LR: Low resistance / : Resistant



European Regulations

Plastic materials in contact with food.



Here at Espiroflex, S.A., we care about the health and well-being of our customers. For this reason, we would like to present all information related to European regulations on plastic materials that come into contact with food so our customers have all possible information available to them and understand which hoses they need to use in each specific case.

Consequently, this section starts with the introduction of Regulation (EU) 10/2011, which explains the food simulants that are used in migration testing, before concluding with an explanatory table taken directly from European Regulation (EU) 10/2011, where you can see which simulant or simulants should be used for each food type.

Food simulants

For demonstration of compliance for plastic materials and articles not yet in contact with foods, the food simulants listed in Table 1 below are assigned.

Table 1 - List of food simulants

Food simulant	Abbreviation
Ethanol 10% (v/v)	Food simulant A
Acetic acid 3% (w/v)	Food simulant B
Ethanol 20% (v/v)	Food simulant C
Ethanol 50% (v/v)	Food simulant D1
Vegetable oil (*)	Food simulant D2
Poly(2,6-diphenyl-p-phenylene oxide), particle size 60-80 mesh, pore size 200 nm	Food simulant E

(*) This may be any vegetable oil with a fatty acid distribution of:

No. of carbon atoms in fatty acid chain: no of unsaturation	6-12	14	16	18:0	18:1	18:2	18:3
Range of fatty acid composition expressed in % (w/w) of methyl esters by gas chromatography	< 1	< 1	1.5-20	< 7	15-85	5-70	< 1.5

General assignment of food simulants to foods

Food simulants A, B and C are assigned for foods that have a hydrophilic character and are able to extract hydrophilic substances. Food simulant B shall be used for those foods which have a pH below 4.5. Food simulant C shall be used for alcoholic foods with an alcohol content of up to 20% and those foods which contain a relevant amount of organic ingredients that render the food more lipophilic.

Food simulants D1 and D2 are assigned for foods that have a lipophilic character and are able to extract lipophilic substances. Food simulant D1 shall be used for alcoholic foods with an alcohol content of above 20% and for oil in water emulsions. Food simulant D2 shall be used for foods which contain free fats at the surface.

Food simulant E is assigned for testing specific migration into dry foods.

Specific assignment of food simulants to foods for migration testing of materials and articles not yet in contact with food

For testing migration from materials and articles not yet in contact with food, the food simulants that corresponds to a certain food category shall be chosen according to Table 2 below

For testing overall migration from materials and articles intended to come into contact with different food categories or a combination of food categories, the food simulant assignment in point 4 is applicable.

Table 2 contains the following information:

- Column 1 (Reference number): contains the reference number of the food category.
- Column 2 (Description of food): contains a description of the foods covered by the food category.
- Column 3 (Food simulants): contains sub-columns for each of the food simulants.

The food simulant for which a cross is contained in the respective sub-column of column 3 shall be used when testing migration of materials and articles not yet in contact with food.

For food categories where in sub-column D2 the cross is followed by an oblique stroke and a figure, the migration test result shall be divided by this figure before comparing the result with the migration limit. The figure is the correction factor referred to in point 4.2 of Annex V to this Regulation.

For food category 01.04 food simulant D2 shall be replaced by 95% ethanol.

For food categories where in sub-column B the cross is followed by (*) the testing in food simulant B can be omitted if the food has a pH of more than 4.5.

For food categories where in sub-column D2 the cross is followed by (**) the testing in food simulant D2 can be omitted if it can be demonstrated by means of an appropriate test that there is no 'fatty contact' with the plastic food contact material.



Table 2 - Food category specific assignment of food simulants

(1) Reference number	(2) Description of food	(3) Food simulants					
		A	B	C	D1	D2	E
01	Beverages						
01.01	Soft drinks or alcoholic beverages of an alcoholic strength lower than or equal to 6% vol:						
	A. Clear drinks: Water, ciders, clear fruit or vegetable juices of normal strength or concentrated, fruit nectars, lemonades, syrups, bitters, infusions, coffee, tea, beers, soft drinks, energy drinks and the like, flavoured water, liquid coffee extract.		X(*)	X			
	B. Cloudy drinks: Juices, nectars and soft drinks containing fruit pulp, musts containing fruit pulp, liquid chocolate.		X(*)		X		
01.02	Alcoholic beverages of an alcoholic strength of between 6% and 20% vol.			X			
01.03	Alcoholic beverages of an alcoholic strength above 20% and all cream liqueurs				X		
01.04	Miscellaneous: undenatured ethyl alcohol		X(*)			Replace with ethanol 95%	
02	Cereals, cereal products, pastry, biscuits, cakes and other bakers' wares						
02.01	Starches						X
02.02	Cereals, unprocessed, puffed, in flakes (including popcorn, corn flakes and the like)						X
02.03	Cereal flour and meal						X
02.04	Dry pasta, for example, macaroni, spaghetti and similar products, and fresh pasta						X
02.05	Pastry, biscuits, cakes, bread and other bakers' wares, dry:						
	A. With fatty substances on the surface					X/3	
	B. Other						X
02.06	Pastry, cakes, bread, dough and other bakers' wares, fresh:						
	A. With fatty substances on the surface					X/3	
	B. Other						X

Table 2 - Food category specific assignment of food simulants (continued)

(1) Reference number	(2) Description of food	(3) Food simulants					
		A	B	C	D1	D2	E
03	Chocolate, sugar and products thereof Confectionery products						
03.01	Chocolate, chocolate-covered products, substitutes and products coated with substitutes					X/3	
03.02	Confectionery products:						X
	A. In solid form:						
	I. With fatty substances on the surface					X/3	
	II. Other						X
	B. In paste format:						
	I. With fatty substances on the surface					X/2	
03.03	II. Moist			X			
	Sugar and sugar products:						
	A. In solid form: crystal or powder						X
04	B. Molasses, sugar syrups, honey and the like	X					
	Fruit, vegetables and products thereof						
04.01	Whole fruit, fresh or chilled, unpeeled						
04.02	Processed fruit:						
	A. Dried or dehydrated fruits, whole, sliced, flour or powder						X
	A. Fruit in the form of purée, preserves, pastes or in its own juice or in sugar syrup (jams, compote, and similar products)		X(*)	X			
	C. Fruit preserved in a liquid medium:						
	I. In an oily medium					X	
	II. In an alcoholic medium				X		
04.03	Nuts (peanuts, chestnuts, almonds, hazelnuts, walnuts, pine kernels and others):						
	A. Shelled, dried, flaked or powdered						X
	B. Shelled and roasted						X
	C. In paste or cream form	X				X	
04.04	Whole vegetables, fresh or chilled, unpeeled						

Table 2 - Food category specific assignment of food simulants (continued)

(1) Reference number	(2) Description of food	(3) Food simulants					
		A	B	C	D1	D2	E
04	Fruit, vegetables and products thereof (continued)						
04.05	Processed vegetables:						
	A. Dried or dehydrated vegetables whole, sliced or in the form of flour or powder						X
	B. Fresh vegetables, peeled or cut	X					
	C. Vegetables in the form of purée, preserves, pastes or in their own juice (including pickled and in brine)		X(*)	X			
	D. Preserved vegetables:						
	I. In an oily medium	X				X	
	II. In an alcoholic medium				X		
05	Fats and oils						
05.01	Animals and vegetable fats and oils, whether natural or treated (including cocoa butter, lard, resolidified butter)					X	
05.02	Margarine, butter and other fats and oils made from water emulsions in oil					X/2	
06	Animal products and eggs						
06.01	Fish:						
	A. Fresh, chilled, processed, salted or smoked including fish eggs	X				X/3(**)	
	B. Preserved fish						
	I. In an oily medium	X				X	
	II. In an aqueous medium		X(*)	X			
06.02	Crustaceans and molluscs (including oysters, mussels and snails)						
	A. Fresh within the shell						
	B. Shell removed, processed, preserved or cooked with the shell:						
	I. In an oily medium	X				X	
	II. In an aqueous medium		X(*)	X			

Table 2 - Food category specific assignment of food simulants (continued)

(1) Reference number	(2) Description of food	(3) Food simulants					
		A	B	C	D1	D2	E
06	Animal products and eggs (continued)						
06.03	Meat of all zoological species (including poultry and game):						
	A. Fresh, chilled, salted, smoked	X				X/4(**)	
	B. Processed meat products (such as ham, salami, bacon, sausages and other) or in the form of paste or creams	X				X/4(**)	
	C. Marinated meat products in an oily medium	X				X	
06.04	Preserved meat:						
	A. In a fatty or oily medium	X				X/3	
	B. In an aqueous medium		X(*)		X		
06.05	Whole eggs, egg yolk, egg white						
	A. Powdered, dried or frozen						X
	B. Liquid or cooked				X		
07	Milk products						
07.01	Milk						
	A. Milk and milk-based drinks whole, partly dried and skimmed or partly skimmed				X		
	B. Milk powder including infant formula (based on whole milk powder)						X
07.02	Fermented milk such as yoghurt, buttermilk and similar products		X(*)		X		
07.03	Cream and sour cream		X(*)		X		
07.04	Cheeses:						
	A. Whole with inedible rind						X
	B. Natural cheese without rind or with edible rind (gouda, camembert and the like) and melting cheese					X/3(**)	
	C. Processed cheese (soft cheese, cottage cheese and similar)		X(*)		X		
	D. Preserved cheese:						
	I. In an oily medium	X				X	
	II. In an aqueous medium (feta, mozzarella and similar)		X(*)		X		



Table 2 - Food category specific assignment of food simulants (continued)

(1)		(2)		(3)			
Reference number	Description of food	A	B	Food simulants		D2	E
				C	D1		
08	Miscellaneous products						
08.01	Vinegar		X				
08.02	Fried or roasted foods:						
	A. Fried potatoes, fritters and the like	X				X/5	
	B. Of animal origin	X				X/4	
08.03	Preparations for soups, broths, sauces, in liquid, solid or powder form (extracts, concentrates); homogenised composite food preparations, prepared dishes including yeast and raising agents						
	A. Powdered or dried:						
	I. With fatty character					X/5	
	II. Other						X
	B. Any other form than powdered or dried:						
	I. With fatty character	X	X(*)			X/3	
	II. Other		X(*)	X			
	08.04 Sauces:						
	A. With aqueous character		X(*)	X			
	B. With fatty character, e.g. mayonnaise, sauces derived from mayonnaise, salad creams and other oil/water mixtures, e.g. coconut-based sauces	X	X(*)			X	
08.05	Mustard (except powdered mustard under heading 08.14)	X	X(*)			X3(**)	
08.06	Sandwiches, toasted bread, pizza and the like containing any kind of foodstuff						
	A. With fatty substances on the surface	X				X/5	
	B. Other						X
08.07	Ice creams			X			
08.08	Dried foods:						
	A. With fatty substances on the surface					X/5	
	B. Other						X

Table 2 - Food category specific assignment of food simulants (continued)

(1)		(2)		(3)			
Reference number	Description of food	A	B	Food simulants		D2	E
				C	D1		
08	Miscellaneous products (continued)						
08.09	Frozen or deep-frozen foods						X
08.10	Concentrated extracts of an alcoholic strength equal to or exceeding 6% vol		X(*)		X		
08.11	Cocoa:						
	A. Cocoa powder, including fat-reduced and highly fat-reduced						X
	B. Cocoa paste					X/3	
08.12	Coffee, whether roasted or not, decaffeinated or soluble, coffee substitutes, granulated or powdered						X
08.13	Aromatic herbs and other herbs such as camomile, mallow, mint, tea, lime blossom and others						X
08.14	Spices and seasoning in the natural state such as cinnamon, cloves, powdered mustard, pepper, vanilla, saffron, salt and other						X
08.15	Spices and seasoning in oily medium such as pesto and curry paste					X	



Recommendations

Offering customers the best service possible is a priority for Espiroflex. Not only is our aim to deliver a high-quality product, but we also seek to advise customers as to how to use and handle the product to ensure a better experience.

If you have any questions, consult Espiroflex's technical team.



Warnings for the user

- ▶ **Avoid tensions and mechanical forces** that may **deform and/or damage** the structure.
- ▶ Use **fittings and connectors suitable** for the diameter and requirements.
- ▶ Always use at the **working pressure indicated in specifications**.
- ▶ Use the **temperature ranges** specified **according to material**.
- ▶ **Respect the bending radius** (specification).
- ▶ Use the **correct product** based on the **needs to be fulfilled**.



Storage

- ▶ Store for the **shortest time possible** (stock rotation).
- ▶ **Avoid contact with other, unsuitable products** (see list of incompatible products).
- ▶ **Store away from sunlight and high temperatures**.
- ▶ **Control the existence of rodents and/or termites**.
- ▶ **Labelling** must be **correct**.
- ▶ **Handle correctly**.
- ▶ **Open** the packaging **carefully**.
- ▶ Store on suitable surfaces.
- ▶ Stack based on the height detailed in each product's specifications.



Assembly

- ▶ The product must be **assembled correctly by professionals**.
- ▶ **Avoid torsion, tension and vibrations**.
- ▶ **Avoid excess pressure** (hard blow).
- ▶ Facilities:
 1. Fixed (check fixing).
 2. Mobile (check length suitability).
 3. If there is an electrical charge, use antistatic hoses.
- ▶ Carry out **suitable maintenance** and replace when defects are detected, including:
 - fissures
 - abrasion
 - bulges
 - damage of any kind and/or leaks.



Destruction or removal

- ▶ Remove **in accordance with legislation**, based on product type.

Certificates

Quality management certificates ISO 9001-2019



Certified products



Hidrotubo®
(only Ø 43
and Ø 55)



Espirogas®



R.I.A®



Hidrotubo®



Hidrotubo® Plus



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