



ESPIROFLEX

EXPERTS IN TECHNICAL HOSES

**Rubber Hoses
Catalog**

Index

- 3 Company
- 7 Technical Specifications
- 9 EspiroChem EPDM
- 11 EspiroVAC SBR
- 13 EspiroFuel NBR
- 15 EspiroFood EPDM
- 17 EspiroFood NBR
- 19 Espiro EPDM S&D
- 21 Espiro EPDM

Quick Finishes Guide (pictograms)

View the features and technical finishes of each product.

 AGRICULTURAL USE	 FOOD USE	 DOMESTIC USE	 INDUSTRIAL USE	 MARITIME USE	 NAUTICAL USE	 POOL USE	 SANITARY USE
 CONSTRUCTION	 TANK TRUCK	 WATER TRANSPORT	 DAIRY TRANSPORT	 CHEMICAL TRANSPORT	 WINE TRANSPORT	 ABRASION RESISTANT	 ANTI-KINKING
 ANTI-TWIST	 SMOOTH BORE	 VERY MANAGEABLE	 GREATER FLEXIBILITY	 POLYESTER REINFORCED	 RIBBED	 LIGHTWEIGHT	 TRICOT HOSE
 RUBBER TOUCH	 LATEX TOUCH	 ANTI-UV PROTECTION	 SEAWATER RESISTANT	 HYDROCARBON RESISTANT	 OZONE RESISTANT	 ADVERSE CONDITIONS	 Cd / Pb / Ba FREE
 PHTHALATE FREE	 NON-TOXIC	 HIGH QUALITY CONTROL	 HIGH TEMPERATURES	 TEMPERATURE -10° A 60 °C	 TEMPERATURE -20 °C A 80 °C	 TEMPERATURE -40 °C A 60 °C	 TEMPERATURE -40 °C A 135 °C
 PVC HELIX	 COPPERED HELIX	 STEEL HELIX	 METAL HELIX	 HIGH PRESSURE	 ANTI-STATIC	 POLYURETHANE MADE	 FLAME RETARDANT M2
 HB UL94	 SPRAYERS	 VENTILATION	 ASPIRATION	 5 LAYERS	 6 LAYERS	 10 YEAR WARRANTY	 ECONOMICAL

Espiroflex is a company dedicated to the manufacturing and distribution of **technical hoses**. Founded in 1995 by a group of industry experts, the company was created to meet the need for high-quality, highly technical hoses in the market.

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.



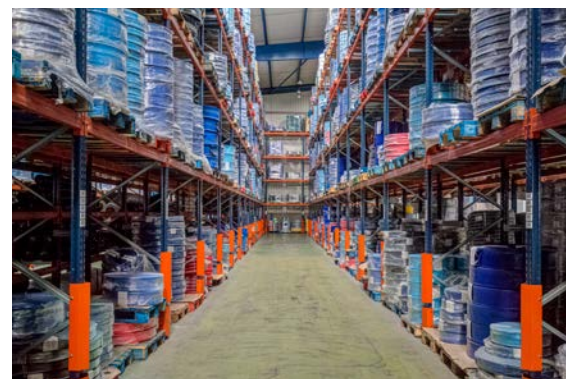
► **R&D Department** in constant development.



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



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.



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

Espiroflex in numbers

STORAGE
CAPACITY OF
12.000 →
EUROPALLETS
SELF-SUFFICIENT



2 PLANTS
FOR
RAW MATERIALS
ANNUAL MANUFACTURING
40,000,000
MILLION METRES



12 TYPES
WITH DIFFERENT
TECHNOLOGIES
OVER
45
PRODUCTION LINES



Espiroflex Spain
(Headoffice)



Soditecc
Narbonne (France)

LEADER IN FRANCE
LEADER IN
DISTRIBUTION
STORAGE
CAPACITY OF
7,000
ON 5 LEVELS
DELIVERY TIMES
(24h) AND (48h)
FACILITIES
OF OVER
8,000 m²



LINEAR METERS
TUBE SOLD
4,000,000 m



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



RUBBER SHEETS
60,000 m²



600 thousand
FITTINGS AND CLAMPS



4 mil
references



TOTAL FACILITIES
20,000 m²
STORAGE
CAPACITY OF
2,000 →
EUROPALLETS
ANNUAL MANUFACTURING
4 MILLION
METRES MANUFACTURED
ANNUALLY
2 productive ranges
raw material
5 TYPES



Espiroflex Czech
(Pacov)

Recommendations

Providing the best service to our clients is one of Espiroflex's top priorities. Our goal is not only to deliver a high-quality product but also to guide our clients in its use and handling to ensure a better experience.



Storage

To minimize deterioration of stored goods, a number of recommendations should be followed:

- ▶ Store for the **shortest possible time** via a stock rotation program. If not possible, carefully inspect the hose before use.
- ▶ **Avoid contact with incompatible substances**, such as chemicals, oils, etc., which could affect the hose's properties (see incompatibility list).
- ▶ **Labeling** must be **correct**, ideally, the product should be easily identifiable even when packaged, simplifying traceability.
- ▶ The recommended storage temperature for plastic hoses is **between 10°C and 25°C**. Under no circumstances should they be stored **above 40°C or below 0°C**.
- ▶ **Do not store near sources of heat.**
- ▶ **Do not store** under conditions of **high or low humidity**. The recommended **humidity level should not exceed 65%**.

Usage Warnings

To ensure the **integrity** and **best performance** of the hose, the following **usage recommendations** should be followed:

- ▶ **Avoid mechanical stress and forces** that could **deform and/or damage** the structure, compromising performance and durability.
- ▶ Use **fittings and couplings appropriate** to the diameter and application needs, ensuring they are compatible with the technical specifications.
- ▶ Always operate within the **specified working pressure**, avoiding overpressure that may affect the system's safety and efficiency.
- ▶ Respect the specified **temperature range depending on the material**, to prevent changes in mechanical and functional properties.
- ▶ **Respect the bend radius** (specification).
- ▶ Use the **correct product** based on the **required needs**, always prioritizing the safety, efficiency, and durability of the hose.



Do not store in **sunlight or at high temperatures**, recommended limits are indicated on the label.



Control for the presence of **rodents and/or termites** by taking appropriate precautions.

Recommendations for the structure of the pallet surface



Not suitable



Suitable



Best Solution

To improve the preservation and the life of the rigid PVC spiral the colls MUST NOT exceed the borders of the pallet.
Between the pallet and the coll put a cardboard sheet or something similar.



Between the surface of pallet and the first coll put a cardboard sheet or something similar.



Handle the colls avoiding shocks and scraping.



It's preferable to put the colls on the floor if the suitable pallets are not available.



Put the colls on the pallet with both hose ends facing upwards.



Assembly

After selecting the appropriate hose type, several criteria must be considered during assembly.

- ▶ Assembly must be **performed properly** by **professionals**.
- ▶ Avoid **torsion**, **tension**, or **vibrations**. Hoses are not designed to operate under such conditions (except specific models); verify resistance parameters.
- ▶ Avoid **overpressure** (water hammer) which could cause the hose to burst or reduce performance.

Installations:

1. **Fixed** (check secure mounting)
2. **Mobile** (ensure proper length)
3. If there is electrical load, **use antistatic tubes**

▶ Perform **proper maintenance** replace the product if defects such as:

- cracks
- abrasions
- bulges
- any kind of damage and/or leaks are detected

Disposal

When disposing of the product, **do not discard it in the environment**.

- ▶ Dispose of **properly according** to regulations based on product type.



EspiroChem EPDM

For challenging environments, choose this versatile, all-purpose chemical suction and discharge hose. It's lightweight, flexible, and resistant to most agricultural chemicals. The external helix allows for easy dragging, while the smooth bore ensures precise flow. Perfect for construction dewatering, liquid waste, septic handling, agriculture, and marine use.

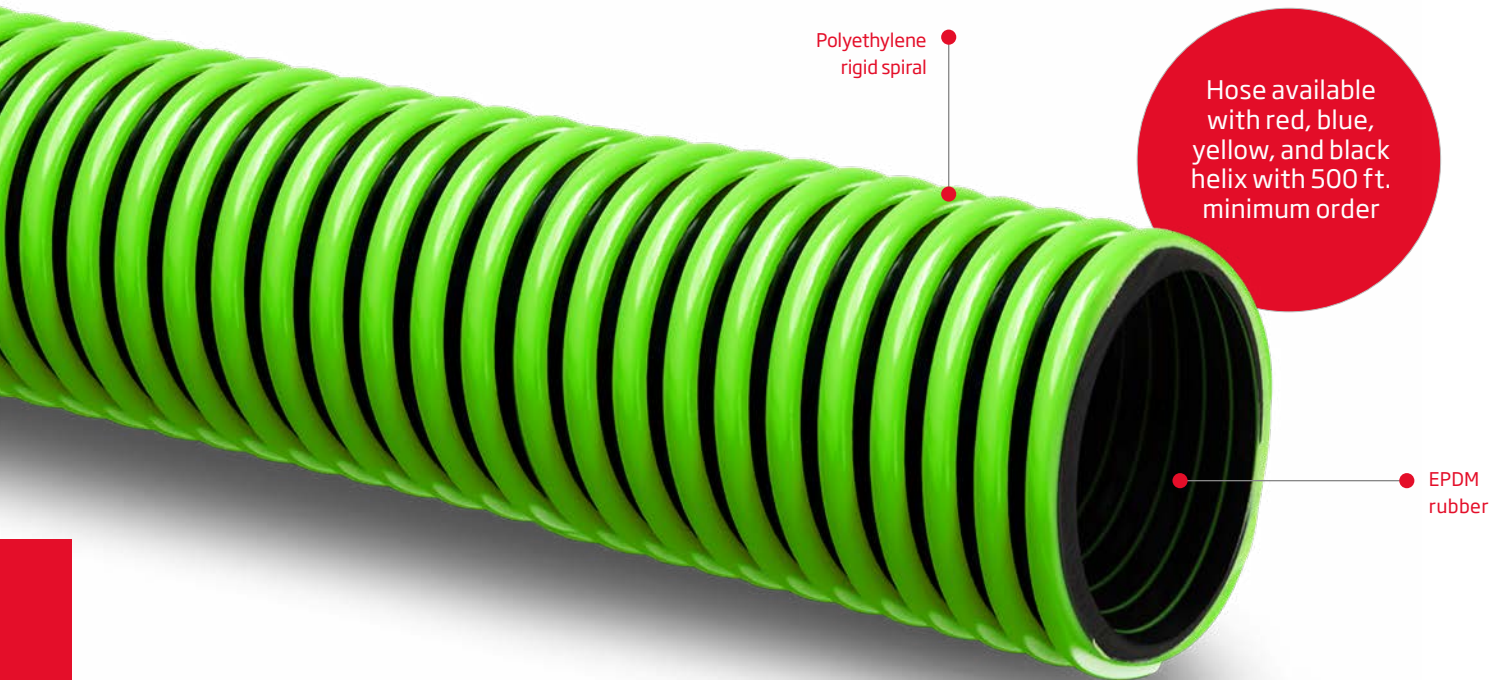
Applications

- ▶ Designed for tough liquid suction and high-capacity transfer tasks.

▶ Ideal for dewatering operations in construction projects.

▶ Constructed to endure demanding marine conditions.
- ▶ Suitable for liquid waste handling, cesspool maintenance, and septic tank servicing.

▶ Dependable for a wide variety of agricultural operations.



Features

- Very light and agile, designed for simple transport and swift deployment across the work area.

• Offers robust resistance to common agricultural chemicals, protecting the hose and extending its reliable service life.
- Features an external helix for superior ruggedness and excellent drag capability, minimizing surface abrasion.

• The unobstructed, smooth bore is key to achieving consistent, precise flow without internal turbulence or restrictions.



RUBBER
TOUCH



INDUSTRIAL
USE



AGRICULTURAL
USE



MARINE
USE



CONSTRUCTION



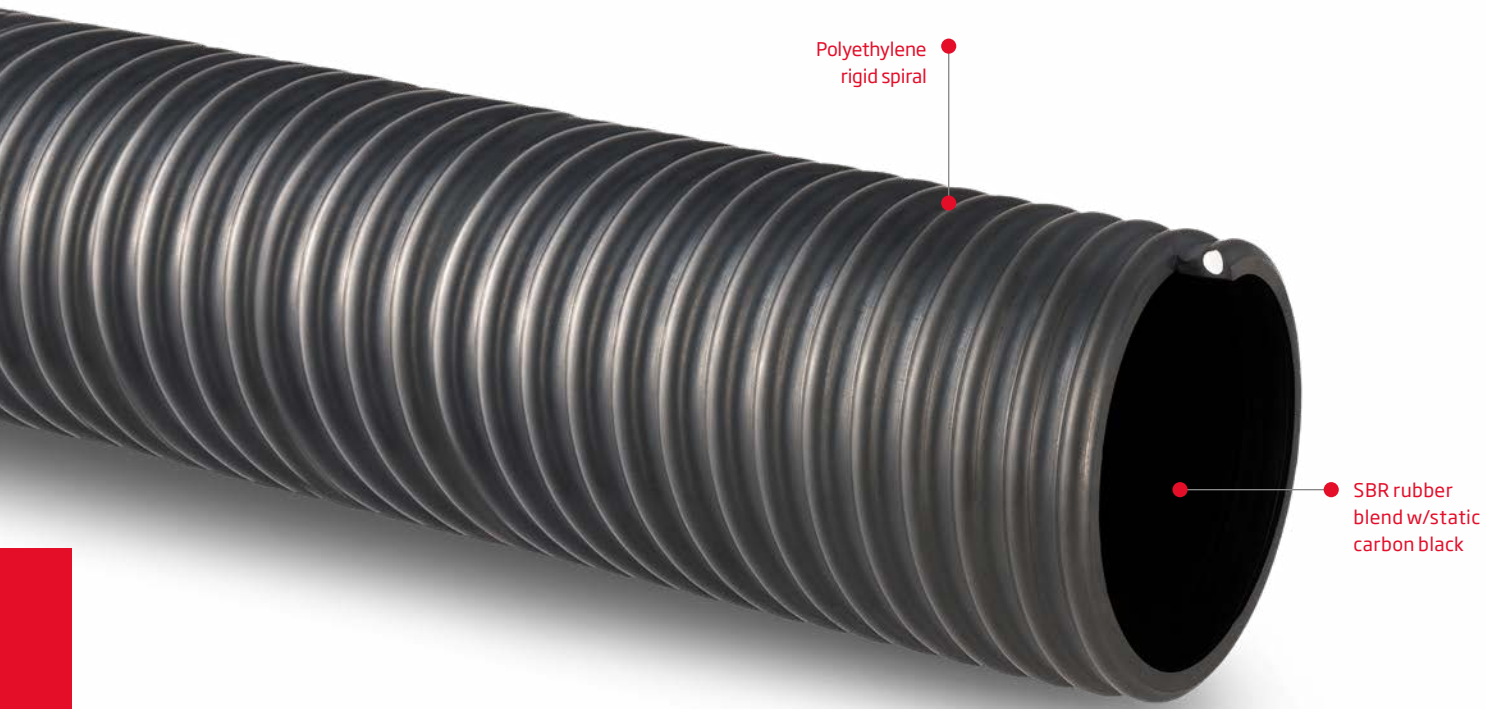
TEMPERATURE
-40°F TO 140°F

ID inches	OD inches	PITCH inches	MINIMUM BEND RADIUS (72°F, inches)	WORKING PRESSURE (72°F, PSI)	VACUUM RATING (72°F, in Hg)	WEIGHT (Lbs/Ft)
1	1.34	0.30	1.9	50	29.8	0.23
1-1/4	1.7	0.33	3.2	50	29.8	0.34
1-1/2	2.0	0.35	3.2	50	29.8	0.40
2	2.5	0.39	5.2	50	29.8	0.67
2-1/2	3.1	0.56	5.6	50	29.8	0.92
3	3.6	0.59	7.1	43	29.8	1.10
4	4.7	0.65	11.0	38	29.8	1.84
6	6.9	0.87	20.0	23	28.0	3.07

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. Over flexing or repeated flexing of hose within 18" of fitting is a common cause of hose failure. Installing a 12"-14" section of our Banding Coil at the end of the hose should be considered. Espiroflex will not be responsible for damage to hose due to over flexing.

EspiroVAC SBR

Choose this heavy-duty, abrasion-resistant suction and discharge hose for the most demanding jobs. This lightweight, flexible SBR rubber hose features static carbon black for exceptional wear resistance and guaranteed static dissipation. The design ensures precise flow, making it perfect for vacuum trucks handling crushed rock, sand, pea gravel, cement powder, dry fertilizer, iron ore, and grains.



Features

- Light and flexible, designed for effortless handling and quick positioning in demanding environments.
- Provides exceptional resistance to abrasion through its advanced blend of SBR rubber and static carbon black.
- Safely dissipates static charge due to its composition, eliminating the need for a separate grounding wire.
- The smooth bore is key to maintaining precise, uninterrupted material flow.
- An added benefit of the smooth internal surface is that it promotes excellent drainage.



RUBBER
TOUCH



CONSTRUCTION



AGRICULTURAL
USE



ABRASION
RESISTANT



TEMPERATURE
-40°F TO 140°F

Applications

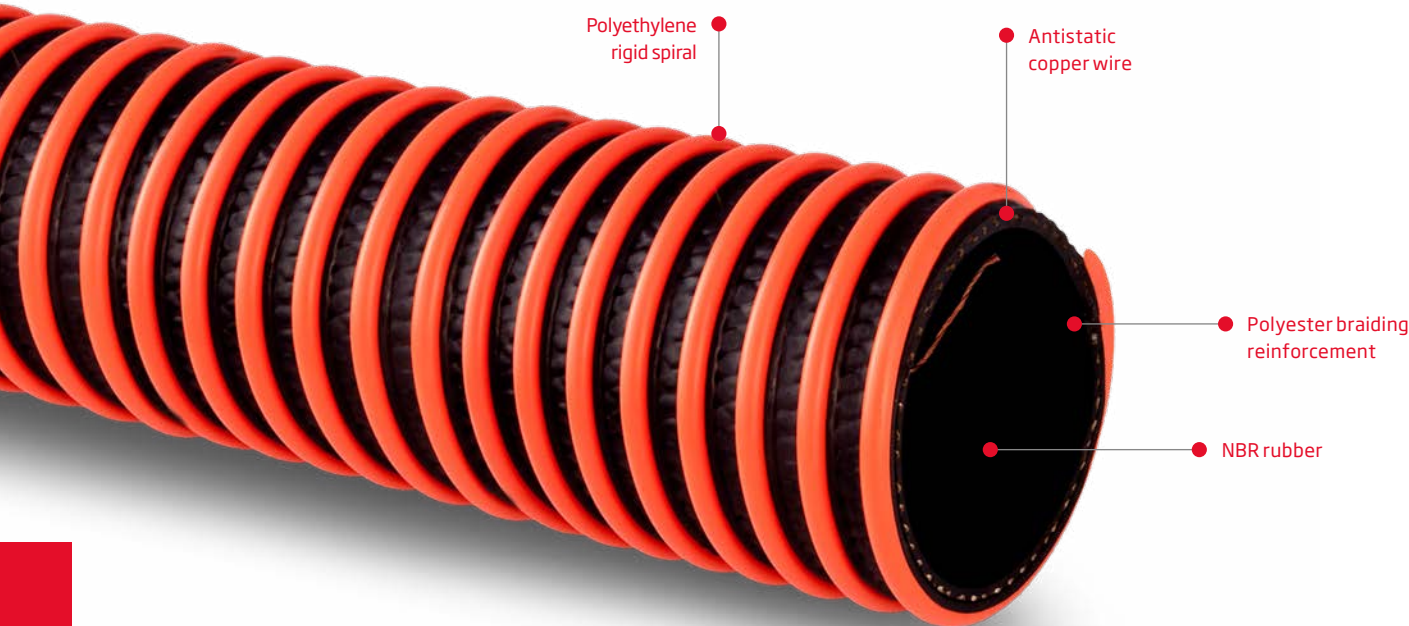
- ▶ Heavy-duty suction hose engineered for demanding vacuum truck operations.
- ▶ Efficiently handles dry abrasives such as crushed rock, sand, and pea gravel.
- ▶ Offers outstanding abrasion resistance, ideal for transferring tough and abrasive materials.
- ▶ Suitable for conveying powdered materials like cement and bulk goods including dry fertilizer, iron ore, and grains.

ID inches	OD inches	PITCH inches	MINIMUM BEND RADIUS (72°F, inches)	WORKING PRESSURE (72°F, PSI)	VACUUM RATING (72°F, in Hg)	WEIGHT (Lbs/Ft)
1-1/4	1.6	0.33	2.0	45	29.8	0.31
1-1/2	1.9	0.35	2.0	45	29.8	0.37
2	2.4	0.39	2.5	40	29.8	0.50
2-1/2	3.0	0.56	2.5	35	29.8	0.88
3	3.5	0.59	3.0	35	29.8	1.10
3-1/2	4.11	0.64	4.0	30	29.8	1.35
4	4.63	0.65	4.5	30	29.8	1.77
5	5.76	0.87	5.0	30	28.0	2.47
6	6.8	0.87	9.2	30	28.0	3.08

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. Over flexing or repeated flexing of hose within 18" of fitting is a common cause of hose failure. Installing a 12"-14" section of our Banding Coil at the end of the hose should be considered. Espiroflex will not be responsible for damage to hose due to over flexing.

EspiroFuel NBR

The all-purpose tank truck drop hose is built to be a lightweight and flexible solution for fuel transfer. Equipped with a nitrile rubber static dissipating tube and a grounding wire, it offers maximum protection against static buildup. An external helix allows for easy handling, making it ideal for gasoline gravity drops of naphtha, kerosene, oil, diesel, and ethanol blends.



Features

- Lightweight and flexible, designed for excellent ease of handling and field maneuverability.
- Features a nitrile rubber static dissipating tube and a separate static grounding wire to ensure maximum static resistance when properly connected to a grounded system.
- The advanced construction allows this hose to be up to 50% lighter than a typical rubber drop hose.
- An external helix ensures superb durability and allows the hose to be easily dragged across various surfaces.
- Safely handles liquids with up to 40% aromatic content.



CHEMICAL
TRANSPORT



INDUSTRIAL
USE



ETHANOL TRANS-
PORT



HYDROCARBON
RESISTANCE



TANK
TRUCK



TEMPERATURE
-30°F TO 140°F

Applications

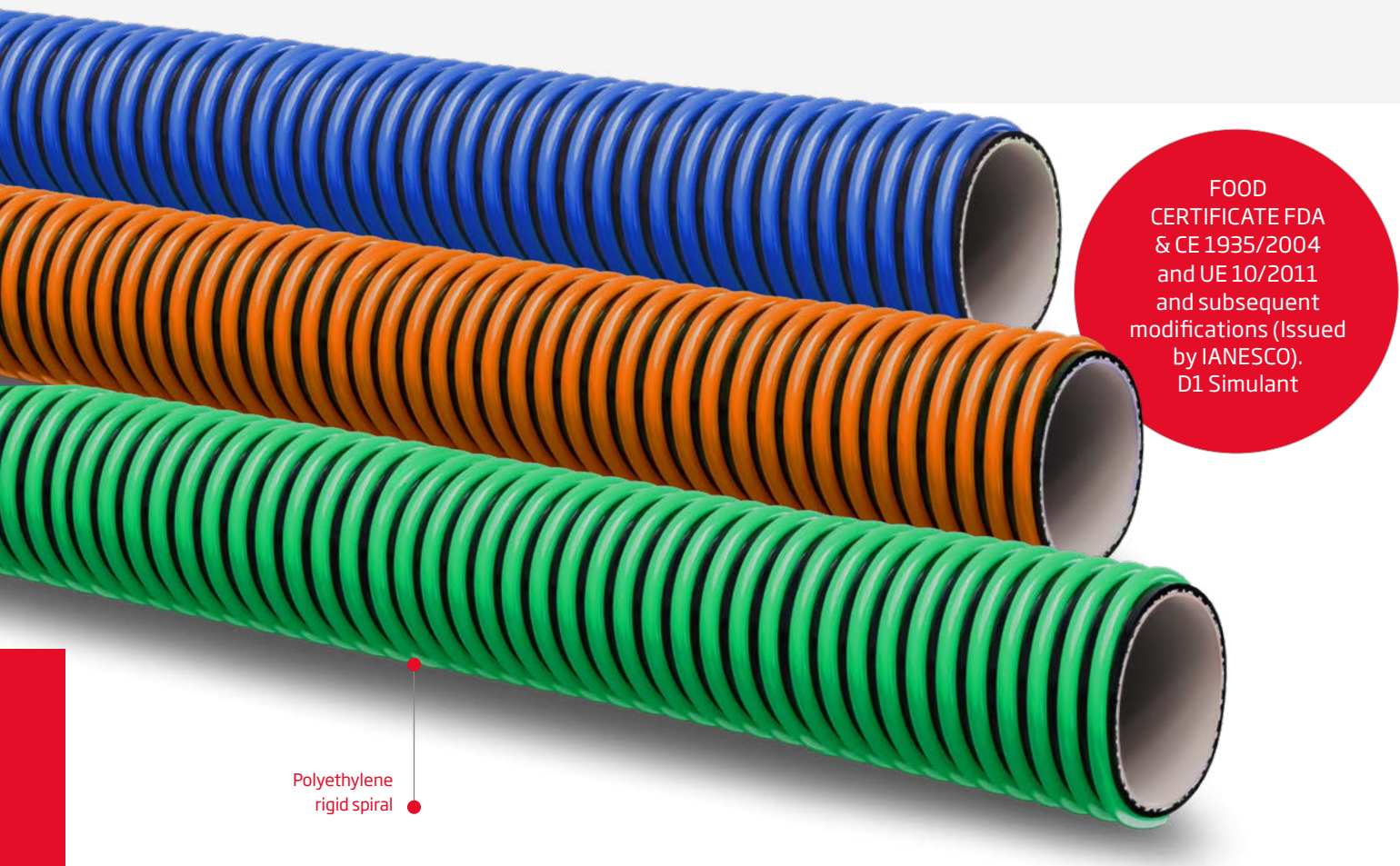
- ▶ Primarily used as a gravity drop hose for gasoline and fuel tank trucks.
- ▶ Compatible with naphtha, kerosene, light and heavy oils, and diesel.
- ▶ Designed for transferring a broad range of petroleum-based fluids.
- ▶ Also suitable for use with specific ethanol blends.

ID inches	OD inches	PITCH inches	MINIMUM BEND RADIUS (72°F, inches)	WORKING PRESSURE (72°F, PSI)	VACUUM RATING (72°F, in Hg)	WEIGHT (Lbs/Ft)
2	2.68	0.39	5.0	65	29.8	1.13
3	3.8	0.59	6.0	65	29.8	1.37
4	4.9	0.65	8.0	65	29.8	2.16

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. Over flexing or repeated flexing of hose within 18" of fitting is a common cause of hose failure. Installing a 12"-14" section of our Banding Coil at the end of the hose should be considered. Espiroflex will not be responsible for damage to hose due to over flexing.

EspiroFood EPDM

For the safe, flexible transfer of food-grade liquids (milk, beer, juices, wines, and up to 50% alcohol), this hose is highly resilient. It recovers up to 90% of its original shape following accidental crushing, and its external polyethylene helix ensures excellent drag capability.



Features

- Designed for the transfer of food liquids, such as milk, beer, juices, and wines..
- Compatible with liquids containing up to 50% alcohol.
- The polyethylene helix ensures excellent drag capability for easy movement across surfaces.
- Highly resilient, offering recovery of 90% of its original shape following accidental crushing or flattening.
- Temperature range: -20°C to +60°C . Until 100°C for brief, low-pressure sterilization processes.



RUBBER TOUCH



FOOD USE



DOMESTIC USE



WINE TRANSPORT



DAIRY TRANSPORT



TEMPERATURE -20 °C TO 60 °C

Applications

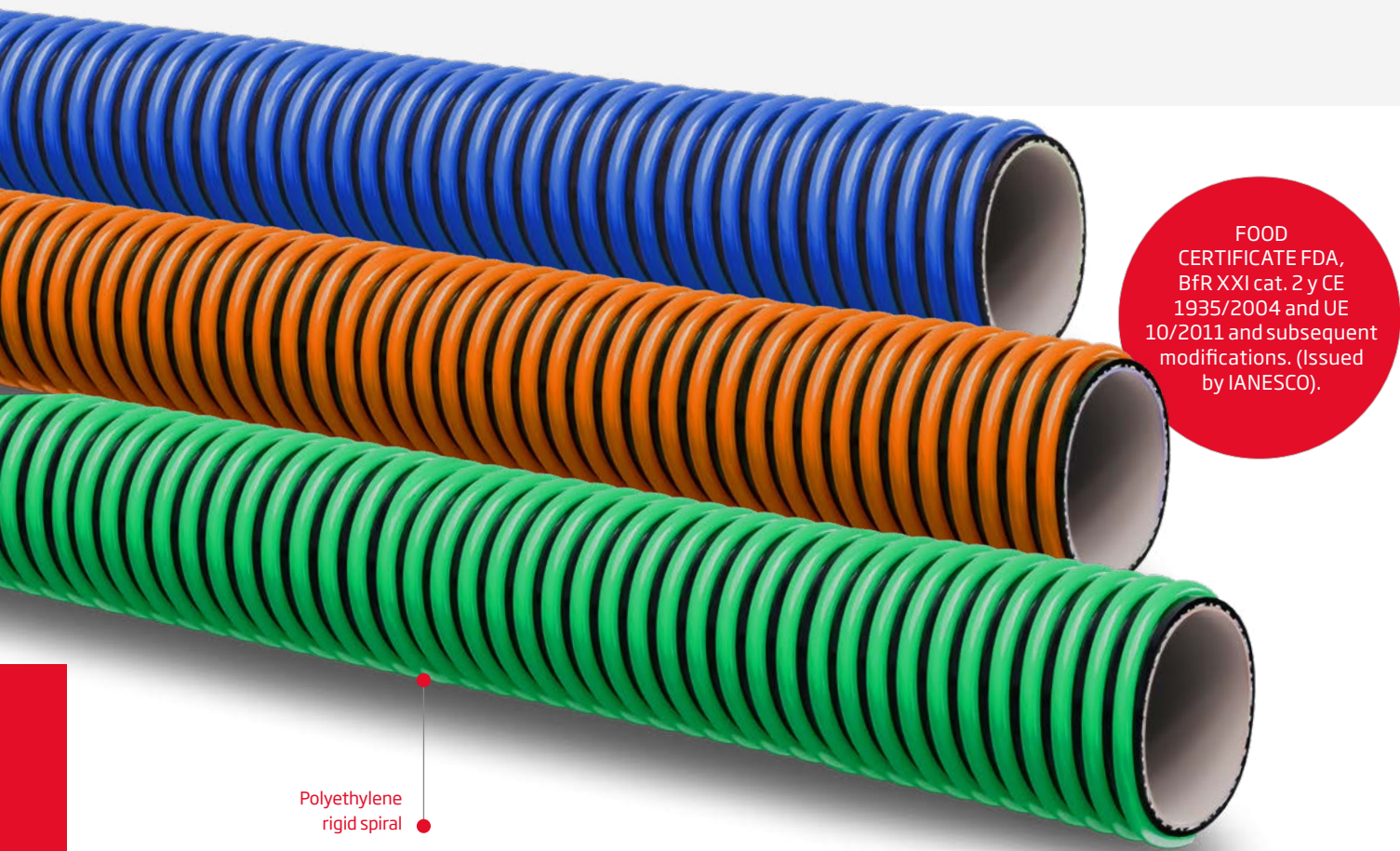
- ▶ Suitable for food liquids such as milk, beer, juice, wine, and other beverages containing up to 50% alcohol.
- ▶ Recovers up to 90% of its original shape in case of flattening.
- ▶ Withstands temperatures up to 100°C for short-term, low-pressure sterilization processes.
- ▶ Provides excellent flow characteristics thanks to its polyethylene helix.

Ø NOM mm	Ø INT mm	Ø EXT mm	WORKING PRESSURE (22°C)	MINIMUM BEND RADIUS (22°C, mm)	WEIGHT (g/m)	COLOR
32	31	44.0	8	80	750	●
40	38	48.6	8	80	898	●
45	44	54.6	8	80	1046	●
50	51	63.5	8	130	1226	●
50	51	63.5	8	130	1226	●
55	54	66.0	8	130	1396	●
60	60	74.5	6	150	1452	●
65	64	79.0	6	150	1650	●
70	69	83.4	6	150	1760	●
75	76	91.7	6	180	1900	●
80	78	93.0	6	180	2022	●
90	89	103.5	5	300	2598	●
100	103	120.0	5	300	2913	●

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. Over flexing or repeated flexing of hose within 18" of fitting is a common cause of hose failure. Installing a 12"-14" section of our Banding Coil at the end of the hose should be considered. Espiroflex will not be responsible for damage to hose due to over flexing.

EspiroFood NBR

This hose is specifically designed for the safe transfer of fatty foods, including oils and butters, and can handle liquids up to an impressive 96% alcohol content. It offers great flexibility and lightness, ensuring easy management during use. The durable external PVC helix allows for effortless dragging across various surfaces.



FOOD
CERTIFICATE FDA,
BfR XXI cat. 2 y CE
1935/2004 and UE
10/2011 and subsequent
modifications. (Issued
by IANESCO).

Polyethylene
rigid spiral

Features

- Designed for fatty food applications, such as oils and butters.
- Compatible with liquids containing up to 96% alcohol.
- Features an external PVC helix that provides durability and allows for effortless dragging.
- Offers great flexibility and lightness, ensuring effortless handling and management.
- Temperature range: -30°C to +60°C . Until 100°C for brief, low-pressure sterilization processes.



RUBBER
TOUCH



FOOD USE



DOMESTIC
USE



WINE
TRANSPORT



DAIRY
TRANSPORT



TEMPERATURE
-30 °C TO 60 °C

Applications

- ▶ Suitable for fatty foods such as oils, butter, and other similar products, as well as beverages containing up to 96% alcohol.
- ▶ Easy to handle and move thanks to its PVC helix.
- ▶ Offers excellent flexibility and lightweight construction.
- ▶ Withstands temperatures up to 100°C for short-term, low-pressure sterilization processes.

Ø NOM mm	Ø INT mm	Ø EXT mm	WORKING PRESSURE (22°C)	MINIMUM BEND RADIUS (22°C, mm)	WEIGHT (g/m)	COLOR
32	32.5	46.6	8.0	80	1000	●
35	34.5	48.6	8.0	80	1100	●
40	38.5	53.5	8.0	80	1280	●
45	45.0	62.5	8.0	130	1350	●
50	50.8	68	8.0	130	1520	●●●
55	54.3	59.5	8.0	130	1590	●
65	63.5	80.5	6.0	150	1700	●
70	69.3	85.5	6.0	150	1800	●
75	76.0	94	6.0	150	2220	●
90	89.3	110.8	5.0	180	2960	●
100	102	123	5.0	180	3460	●

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. Over flexing or repeated flexing of hose within 18" of fitting is a common cause of hose failure. Installing a 12"-14" section of our Banding Coil at the end of the hose should be considered. Espiroflex will not be responsible for damage to hose due to over flexing.

Espiro EPDM S&D

A very flexible and light hose suitable for the suction and discharge of residual water, salt water, and chemical products. It features a polyethylene helix for effortless dragging across tough terrain. Use it reliably in mining, construction, and septic tank operations.



Features

- Designed for the reliable aspiration and impulsion of tough liquids: residual water, salt water, and chemical products.
- Ideal for use in rugged environments, including mining, construction, and septic services.
- Features a polyethylene helix that ensures both excellent drag capability and enhanced durability.
- Highly robust, offering a 90% shape recovery in the event of crushing or flattening.



CHEMICAL
TRANSPORT



INDUSTRIAL
USE



CONSTRUCTION



SALTWATER
RESISTANT



ASPIRATION



LIGHTWEIGHT



HIGH
FLEXIBILITY



TEMPERATURE
-20 °C TO 60 °C

Applications

- ▶ Highly flexible and lightweight.
- ▶ Ensures excellent flow performance thanks to its polyethylene helix.
- ▶ Designed for suction and discharge of residual water, salt water, chemical products, and for use in mining, construction, and septic tank applications.

Ø NOM mm	Ø INT mm	Ø EXT mm	WORKING PRESSURE (22°C)	MINIMUM BEND RADIUS (22°C, mm)	WEIGHT (g/m)
40	38.2	48.6	8	80	898
45	44.2	54.6	8	80	1046
50	51.4	63.5	8	130	1226
55	54.3	66.0	8	130	1396
60	60.0	74.5	6	150	1452
65	63.5	79.0	6	150	1650
70	69.3	83.4	6	150	1760
75	76.2	91.7	6	180	1900
80	78.0	93.0	6	180	2022
90	89.3	103.5	5	300	2598
100	103.0	120.0	5	300	2913

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. Over flexing or repeated flexing of hose within 18" of fitting is a common cause of hose failure. Installing a 12"-14" section of our Banding Coil at the end of the hose should be considered. Espiroflex will not be responsible for damage to hose due to over flexing.

Espiro EPDM

A light and highly flexible hose designed for the suction and discharge of residual water, salt water, and chemical products. The external polyethylene helix ensures durability and allows for excellent drag capability across job sites. Ideal for use in mining, construction, and septic services.



Features

- Designed for aspiration and discharge of residual water, salt water, chemical products, and for use in mining, construction, and septic tank applications.
- Features excellent flow characteristics thanks to its polyethylene helix.
- Highly flexible and lightweight.



CHEMICAL
TRANSPORT



INDUSTRIAL
USE



CONSTRUCTION



SALTWATER
RESISTANT



ASPIRATION



LIGHTWEIGHT



HIGH
FLEXIBILITY



TEMPERATURE
-30°C TO 70°C

Applications

- ▶ Very flexible and lightweight.
- ▶ Offers excellent flow characteristics thanks to its polyethylene helix.
- ▶ Suitable for suction and discharge of residual water, salt water, chemical products, and for applications in mining, construction, and septic tank services.

Ø NOM mm	Ø INT mm	Ø EXT mm	WORKING PRESSURE (22°C)	MINIMUM BEND RADIUS (22°C, mm)	WEIGHT (g/m)
40	38.0	48.0	0.61	50	476
50	50.6	59.7	0.61	60	503
60	61.0	71.0	0.61	65	680
70	71.0	80.6	0.61	80	780
75	76.0	87.1	0.70	100	894
100	103.3	114.5	0.63	102	1200
125	127.0	140.5	0.49	127	1700
150	152.4	169.4	0.42	152	2000

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. Over flexing or repeated flexing of hose within 18" of fitting is a common cause of hose failure. Installing a 12"-14" section of our Banding Coil at the end of the hose should be considered. Espiroflex will not be responsible for damage to hose due to over flexing.



Espiroflex, S.A.

C/ Vic s/n · Pol. Ind. La Florida · Sta. Perpétua de Mogoda
08130 Barcelona (Spain)



(+34) 93 560 24 00



info@espiroflex.com



www.espiroflex.com/en