



castello®
hi-tech tubes

AUTOMOTIVE

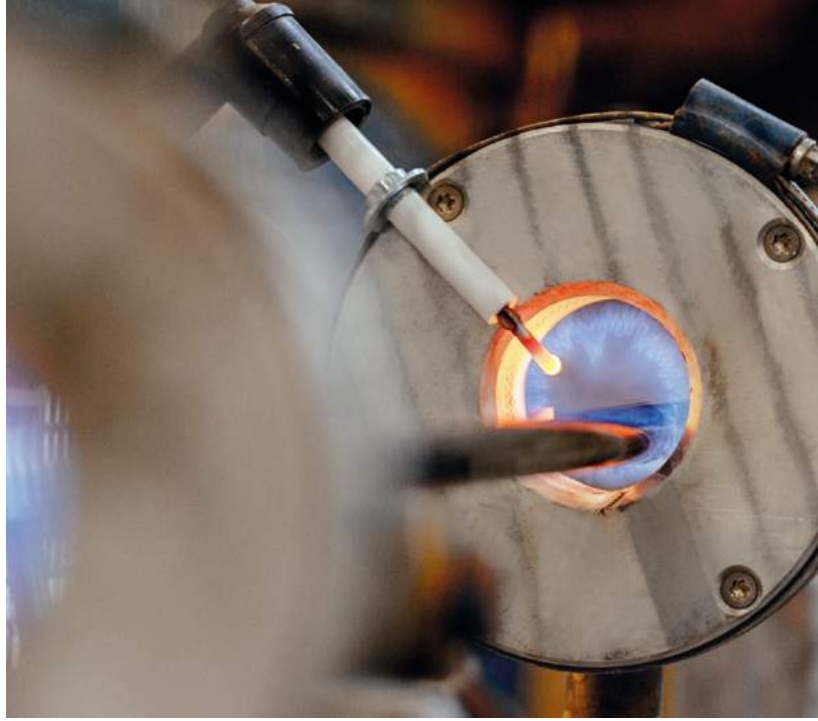
EN





castello
hi-tech tubes

The flexible way





THE COMPANY

A solid, global Italian business

Castello Italia S.p.A. was founded in the 1960s as one of the first companies in Italy specialised in the production of plastic tubing.

In 2010, at the height of a major investment cycle that started ten years before, the company entered the automotive sector and soon became a qualified supplier for polyamide and polyurethane tubing, which today can be found on all vehicles of the world's leading brands.

The production is **100% Made in Italy**, but the commercial network extends into the countries where the production of the main worldwide manufacturers are located: Italy, France, Germany, UK, Sweden, Belgium, the Netherlands, Spain, Poland, Russia, Turkey and Japan.

Quality, expertise, service

In the automotive sector, competition is regulated by quality, which must be absolute. It is thanks to this focus, to the know-how acquired over the years and to the close partnership with customers that Castello Italia S.p.A. has established itself as a worldwide point of reference in the industry.

THE FLEXIBLE WAY

Flexibility as a value

Flexibility is the capacity to give efficient and prompt replies to the requests of the customer. **Castello Italia S.p.A.** has adopted this attitude since the last ten years. To meet the needs of product customization, the company is internally structured to manage all the phases of design, development, production and testing based on the technical specifications and expected performance levels requested by the customer. In the course of time, the company has been able to adapt to market changes through the improvement of its own organization and technological performances, the management of human resources and external relationships.



Custom Made in Castello

Castello Italia S.p.A. does not offer its customers only products, it offers them solutions. Each order is personalised and managed according to the customer's design and production needs. Castello's attitude towards the market is innovative in the way it understands and answers to customer requests.

The customer service

People are the very heart of the company and the company has always invested on people.

Customer orientation and quality is a shared mentality at all levels; **Castello Italia S.p.A.** offers an excellent service allowing customer to choose its product as conceived internally. This flexible and customer-centred attitude is always the key to secure loyal and satisfied customers.

CERTIFICATIONS

Castello Italia S.p.A. owns all the necessary certifications to guarantee the customer that the highest production standards are being observed.

All company processes are designed, structured and controlled in full compliance with these regulations and the company welcomes all types of audits by customers.

System Certifications

Our plant is certified according to the following standards:

- IATF 16949:2016**
- UNI EN ISO 9001:2015**
- UNI EN ISO 14001:2015**

Product Certifications

Our products comply with the following standards:

- ISO, DIN, SAE, NF**
- REACH REGULATION**
- ROHS DIRECTIVES 2011/65/EC**
- SILICON FREE**



APPLICATIONS / MATERIALS TABLE

MATERIALS

PA 12 C.BEST	PA 10.12 C.PRO	PA 11 C.BIO	TEEE C.MECH	C.MLT 533 MULTILAYER	PA11 HT C.PPA	PPS C.PPS	C.MLT 9T MULTILAYER AND C.MLT 9TC	C.MLT 301 MULTILAYER
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APPLICATIONS

AIR BRAKE
LINES

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AIR BRAKE
COILS

• • • • •

SCR

• • • • •

COOLING

• • • • •

AIR
SUSPENSION

• • • • •

FUEL

• • • • •

CLUTCH

• • • • •

BLOW BY

• • • • •

VACUUM

• • • • •



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AIR BRAKE LINES

The tubing is the element that allows the free flow of compressed air that is essential for the proper operation of all the elements of the braking system. It plays a fundamental role in the **safety** of all commercial vehicles.

Castello's AIR BRAKE lines have been developed to meet the highest demands of modern braking systems.

The use of high-performance plastics makes it possible to supply products that are highly resistant to **humidity, UV rays, chemical substances** and **fuels**, as well as ensuring total compliance with the most important international regulations such as:

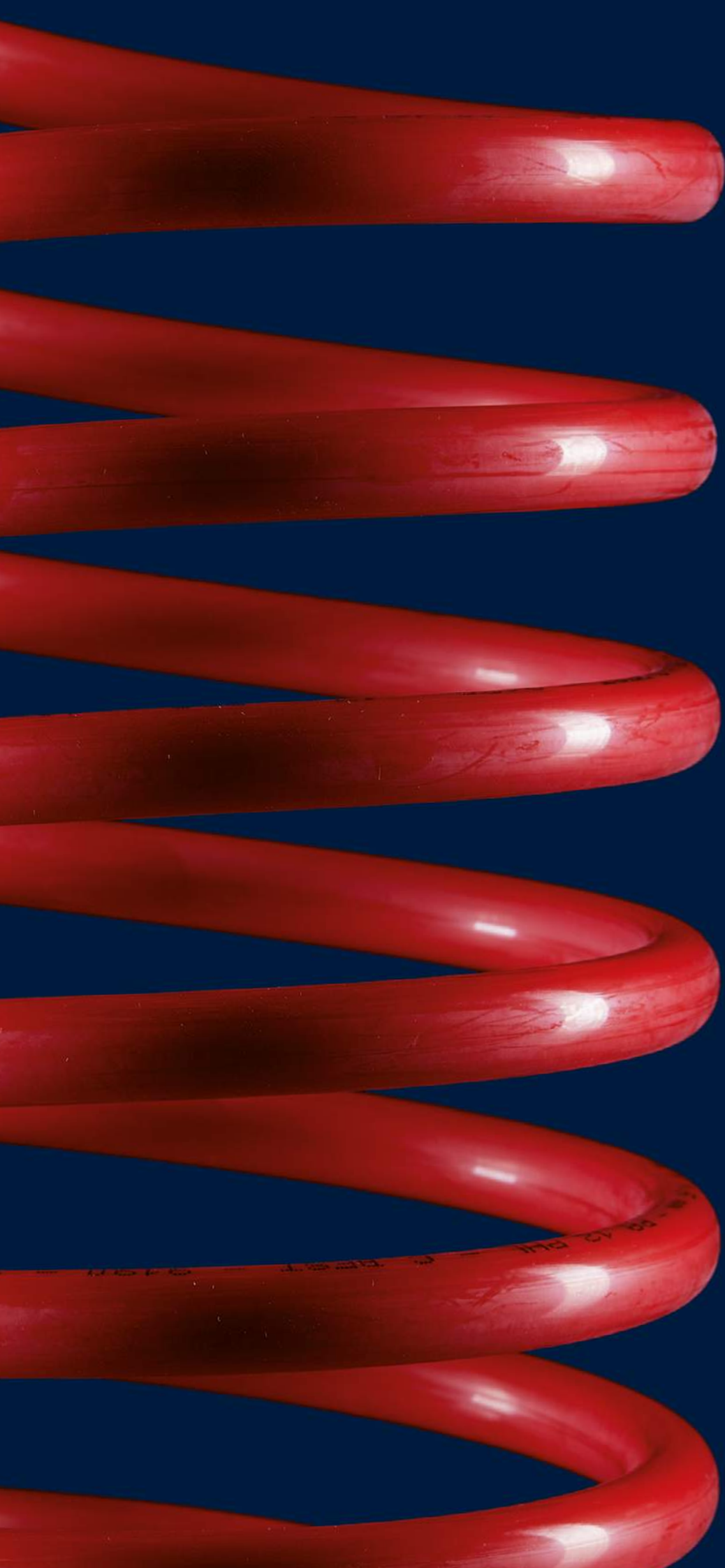
- **DIN 74324** (German)
- **ISO 7628** (International, European)
- **SAE J 844 Type A and B** (American)
- **JASO M317** (Japanese)
- **GB 16897** (Chinese)
- **GOST R 51190-98** (Russian)
- **NF 11 632-2** (French)

Properties:

- **CHEMICAL RESISTANCE**
(in particular to Zinc Chloride)
- **HEAT RESISTANCE**
- **IMPACT STRENGTH IN COLD CONDITIONS**
- **WEAR RESISTANCE**
- **RESISTANCE TO HIGH PRESSURES**
- **HIGH DURABILITY**
- **VERY LIGHT WEIGHT**
- **HIGH FLEXIBILITY**
- **HIGH SAFETY COEFFICIENT**

Tube sheet recommended

- **C.PRO IN PA1012**
- **C.BIO IN PA11**
- **C.BEST IN PA12**
- **C.MECH IN TEEE**
- **C.MLT 533 MULTILAYER**



AIR BRAKE COILS

The **brake coil** is a fundamental component that allows you to safely extend braking power from the tractor to the trailer at any time.

Castello's **AIR BRAKE COIL lines** are suitable for all commercial vehicles, guaranteeing great **durability** over time, exceptional **flexibility** and high **resistance** to weather and chemical agents like lubricants and fuels.

The high quality of the materials selected for the manufacture of these elements allows compliance with the standards:

- **DIN 74323** (German)
- **ISO 7375** (International, European)
- **SAE J 844** (American)

Properties:

- **CHEMICAL RESISTANCE**
(in particular to zinc chloride)
- **HEAT RESISTANCE**
- **IMPACT STRENGTH
IN COLD CONDITIONS**
- **WEAR RESISTANCE**
- **RESISTANCE TO
HIGH PRESSURES**
- **HIGH DURABILITY**
- **VERY LIGHT WEIGHT**
- **HIGH FLEXIBILITY**
- **HIGH SAFETY COEFFICIENT**

Tube sheet recommended

- C.PRO IN PA1012
- C.BIO IN PA11
- C.BEST IN PA12
- C.MECH IN TEEE
- C.MLT 533 MULTILAYER

AIR BRAKE COILS

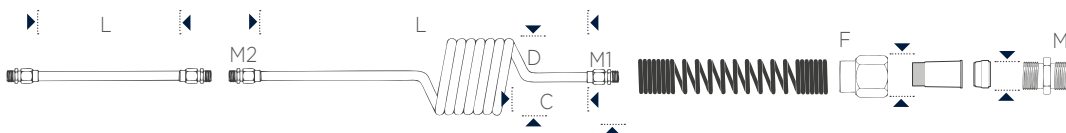


SHORT TAILS COILS/ OTHER COILS UPON REQUEST



	STANDARD (mm)	NARROW (mm)	F (mm)	M (mm)
TURNS	17	21		
D	120	95		
L	4,0	4,0	F18 x 1,5	M 16 x 1,5 L 15
C	100	100	F18 x 1,5	M 18 x 1,5 L 34
TUBE	12 x 1,5	12 x 9 x 1,5	F1/2" x 1,5	M 22 x 1,5 L 15

LONG TAILS COILS/ OTHER COILS UPON REQUEST

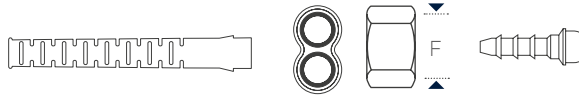
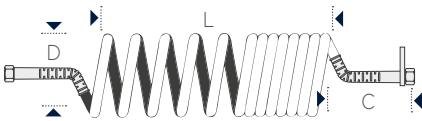


	STANDARD (mm)	NARROW (mm)	F (mm)	M (mm)
TURNS	0	7	-	-
D	-	95	-	-
L	2,740	4,725	F18 x 1,5	M 16 x 1,5 L 15
C	0	100	F18 x 1,5	M 18 x 1,5 L 34
TUBE	12 x 9 x 1,5	12 x 9 x 1,5	-	-

AIR BRAKE COILS



TECHNICAL DATA TYPE A

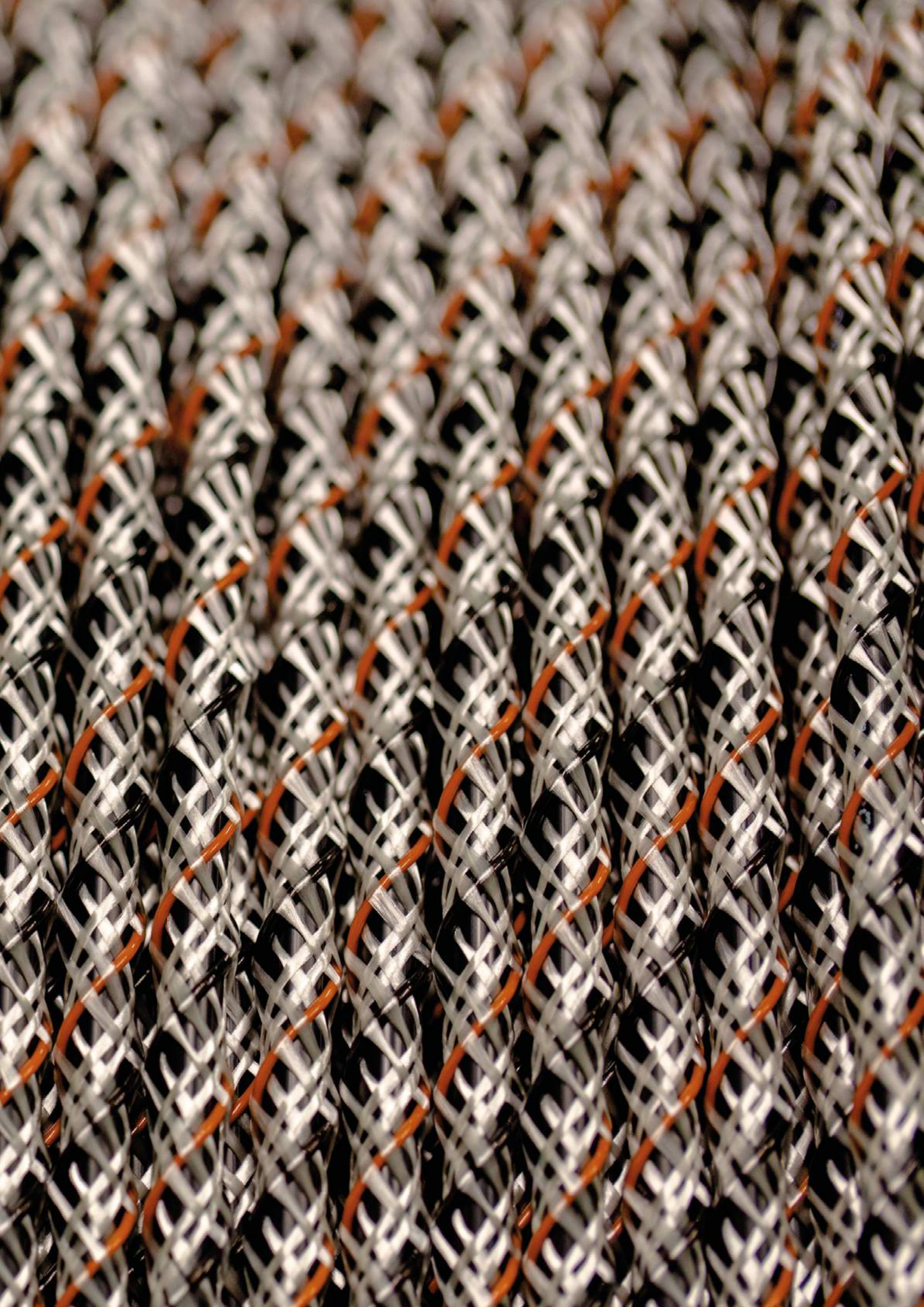


	STANDARD (mm)	NARROW (mm)	F (mm)	M (mm)
TURNS	17	21		
D	120	95		
L	4,0	4,0	F18 x 1,5	M 16 x 1,5 L 15
C	100	100	F18 x 1,5	M 18 x 1,5 L 34
TUBE	12 x 1,5	12 x 9 x 1,5	F1/2" x 1,5	M 22 x 1,5 L 15

TECHNICAL DATA TYPE B



	STANDARD (mm)	NARROW (mm)	M (mm)
TURNS	17	21	-
D	120	95	-
L	4,0	4,0	M 18 x 1,5
C	100	100	-
TUBE	12 x 9 x 1,5	12 x 9 x 1,5	-



SCR LINES

(SELECTIVE CATALYTIC REDUCTION)

SCR tubes for selective catalytic reduction allow the transporting of urea (AdBlue®) to the catalyst to reduce NOx (nitrogen oxides) in the exhaust gases of all diesel-powered vehicles, with the aim of **reducing pollutant emissions**.

Castello's SCR lines are the result of advanced research aimed at offering all the actors in the market a product that features **excellent thermal, mechanical and chemical performance**.

A special **heating system** guarantees its perfect operation even at low temperatures (-40°C).

Properties:

- CHEMICAL RESISTANCE
- HEAT RESISTANCE
- IMPACT STRENGTH
IN COLD CONDITIONS
- WEAR RESISTANCE
- RESISTANCE TO
HIGH PRESSURES
- HIGH DURABILITY
- VERY LIGHT WEIGHT
- HIGH FLEXIBILITY
- HIGH SAFETY COEFFICIENT

Tube sheet recommended

- C.BIO IN PA11*
- C.BEST IN PA12*
- C.MLT MULTILAYER*

* *Contact us*



COOLING LINES

Cooling tubes are used to transport coolant liquids to allow cooling of **both petrol** and **diesel engines** as well as **batteries** for **electric motors**.

Castello's COOLING lines have been developed specifically to guarantee the proper operation of the cooling system, avoiding the overheating of engines that can lead to disastrous consequences.

Technopolymers were chosen specifically to produce **thermoformable** tubes designed to withstand wide thermal variations and the chemical aggression of coolants.

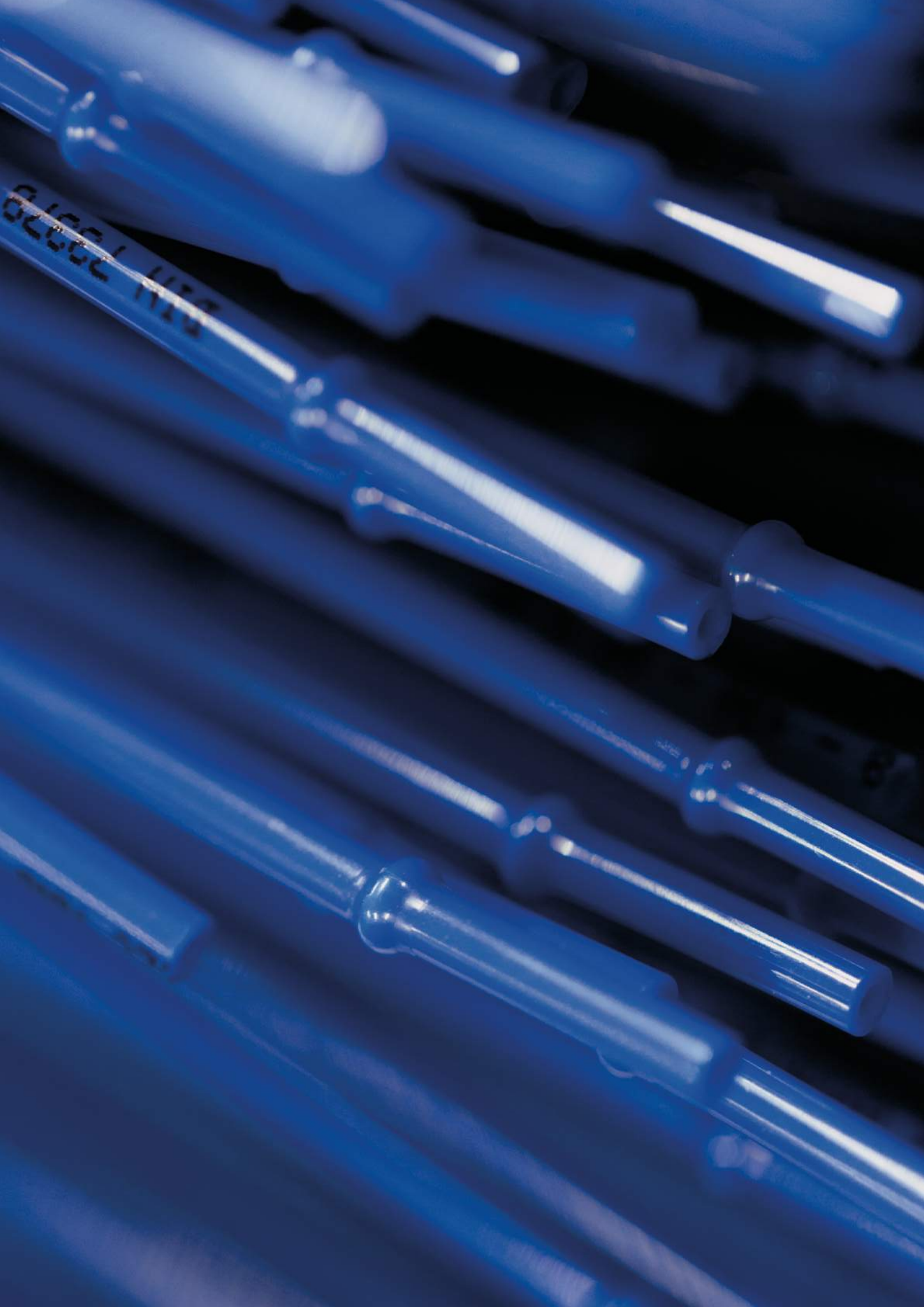
Properties:

- CHEMICAL RESISTANCE
- HEAT RESISTANCE
- RESISTANCE TO HYDROLYSIS
- RESISTANCE TO HIGH PRESSURES
- HIGH DURABILITY
- HIGH SAFETY COEFICIENT

Tube sheet recommended

- C.BIO IN PA11*
- C.BEST IN PA12*
- C.MLT MULTILAYER*
- OTHER PRODUCTS ON REQUEST*

* *Contact us*



AIR SUSPENSION LINES

To meet the needs of **comfort** on vehicles that are getting heavier, **air suspension systems** are becoming more common on cars and commercial vehicles as an alternative to traditional spring suspension systems.

Castello's AIR SUSPENSION lines offer high quality products that guarantee maximum resistance under **high pressure**, exceptional **chemical resistance** and **durability**.

Thermoformed both cold and hot, the tubes have a very narrow **dimensional tolerance** to avoid air leaks.

Properties:

- CHEMICAL RESISTANCE
- HEAT RESISTANCE
- IMPACT STRENGTH
IN COLD CONDITIONS
- WEAR RESISTANCE
- RESISTANCE TO
HIGH PRESSURES
- HIGH DURABILITY
- VERY LIGHT WEIGHT
- HIGH FLEXIBILITY
- HIGH SAFETY COEFFICIENT

Tube sheet recommended

- C.PRO IN PA1012
- C.BIO IN PA11
- C.BEST IN PA12
- C.MLT (*on request*)





FUEL LINES

The fundamental role of the fuel lines is to **transfer fuel continuously** and safely from the tank to the vehicle engine.

Castello's FUEL lines guarantee maximum reliability and safety in fuel supply circuits throughout the life of the vehicle.

In addition to offering superior chemical and thermal resistance, thermoformed FUEL tubes also own **antistatic properties** to prevent the formation of static electricity, a source of dangerous sparks.

Properties:

- **CHEMICAL RESISTANCE**
(for all types of fuels)
- **HEAT RESISTANCE**
- **IMPACT STRENGTH**
IN COLD CONDITIONS
- **WEAR RESISTANCE**
- **HIGH DURABILITY**
- **VERY LIGHT WEIGHT**
- **HIGH FLEXIBILITY**
- **HIGH SAFETY COEFFICIENT**

Tube sheet recommended

- **C.BIO IN PA11**
- **C.BEST IN PA12**
- **C.MLT 301** (on request)
- **OTHER PRODUCTS**
ON REQUEST*

* *Contact us*



CLUTCH LINES

Clutch tubing is the key element for activating the clutch on road vehicles by transporting hydraulic fluid (**DOT 4**).

Castello's CLUTCH lines are the result of advanced research to replace metal tubes in order to offer the market a product featuring excellent **mechanical properties** and **dimensional stability** under pressure.

Clutch tubing can stand up to aggressive chemical agents, alternating pressure cycles and high temperatures without being deformed and/or altered over time.

Properties:

- **CHEMICAL RESISTANCE**
(DOT 4)
- **HEAT RESISTANCE**
- **IMPACT STRENGTH**
IN COLD CONDITIONS
- **WEAR RESISTANCE**
- **HIGH DURABILITY**
- **HIGH RESISTANCE**
TO PRESSURE WITHOUT
DEFORMATION
- **VERY LIGHT WEIGHT**
- **HIGH SAFETY COEFFICIENT**

Tube sheet recommended

- **C.BIO IN PA11***
- **C.BEST IN PA12***
- **C.MLT MULTILAYER***
- **OTHER PRODUCTS**
ON REQUEST*

* *Contact us*





BLOW BY LINES

The **recycling tube** has the task of recovering and redirecting oil vapours present in the engine, injecting them into the cylinders' subsequent combustion phases.

Castello's BLOW BY lines are designed to guarantee superior resistance to **high temperatures** and to the **chemical agents** in the recovered gases.

Their vapour recovery function protects the environment and guarantees excellent engine performance.

Properties:

- CHEMICAL RESISTANCE
- HEAT RESISTANCE
- WEAR RESISTANCE
- HIGH DURABILITY
- VERY LIGHT WEIGHT
- HIGH SAFETY COEFFICIENT

Tube sheet recommended

- C.BIO IN PA11
- C.MLT MULTILAYER*
- OTHER PRODUCTS
ON REQUEST*

* *Contact us*





VACUUM LINES

The **vacuum hose** is a flexible connection that directs the vacuum of the auto collector to supply various components of the vehicle, like the **brake booster**, the positive **crankcase ventilation** (PCV) **valve**, the **heater control valve**, HVAC control and **exhaust gas recovery** (EGR valve).

Castello VACUUM lines are distinguished by the **high reliability of its materials**, guaranteeing excellent functionality and durability over time.

Properties:

- CHEMICAL RESISTANCE TO EXTERNAL AGENTS
- HEAT RESISTANCE
- RESISTANCE TO VACUUM DEFORMATION
- HIGH DURABILITY
- VERY LIGHT WEIGHT
- HIGH FLEXIBILITY
- HIGH SAFETY COEFFICIENT

Tube sheet recommended

- C.BEST IN PA12
- C.BIO IN PA11*
- C.MLT MULTILAYER*
- OTHER PRODUCTS ON REQUEST*

* *Contact us*



PACKAGING

Castello Italia S.p.A. offers a wide range of solutions for the packaging of its products to satisfy all market needs. Depending on their sizes, the hoses can be wound in rolls or in large coils on wooden or plastic supports.

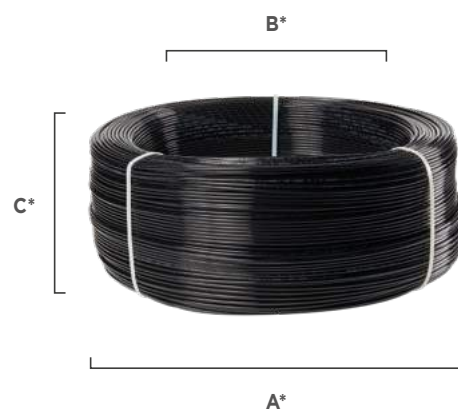
SINGLE ROLLS



25 m



100 m



ROLL SIZE

Ø TUBE (mm)	A* ROLL EXTERIOR (mm)	B* ROLL INTERIOR (mm)	C* SHOULDER (mm)	ROLL LENGTH (m)
Ø 6 x 1	Ø 700	Ø 500	500	1000
Ø 8 x 1	Ø 740	Ø 740	430	850
Ø 10 x 1	Ø 725	Ø 725	430	500
Ø 12 x 1,5	Ø 750	Ø 750	430	400
Ø 15 x 1,5	Ø 810	Ø 810	500	250

PACKAGING C.BOX

C.Box packs are specially designed for suppliers of small quantities. Available in **4 different sizes**, depending on the material and the dimensions of the hoses to be contained, and can include **25, 50** and **100** meter drums.



C.BOX Q

255 x 255 x 70 mm



C.BOX W

300 x 300 x 80 mm



C.BOX Y

400 x 400 x 110 mm



C.BOX N

600 x 600 x 110 mm

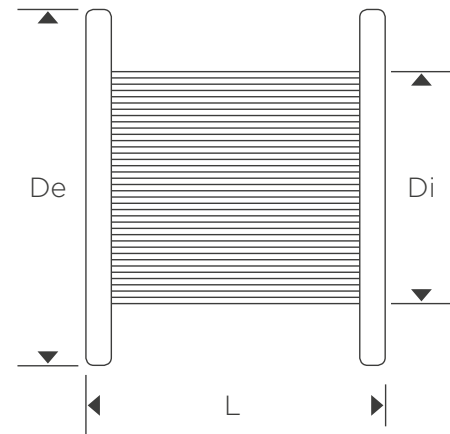
COMBINATION SIZE | LENGTH | C.BOX TYPE

Ø TUBE EXTERIOR (mm)	25 m	50 m	100 m
4	Q	Q	W
6	Q	W	Y
8	W	Y	Y
10	Y	-	N
12	Y	-	-
14	N	-	-

PACKAGING DRUMS

WOOD, PLASTIC AND CARDBOARD

DRUM DIMENSIONS (mm)	TYPE A Wood	TYPE D Plastic	TYPE E Wood	TYPE G Cardboard box	TYPE H Wood	TYPE L Wood
DI	250	310	310	280	500	310
DE	600	600	750	600	1000	70
L	300	315	350	300	470	480
INNER HOLE	42	82	82	42	82	82



MAXIMUM TUBE LENGTH PER DRUM

Ø TUBE EXTERIOR (mm)	TYPE A Wood (m)	TYPE D Plastic (m)	TYPE E Wood (m)	TYPE G Cardboard box (m)	TYPE H Wood (m)	TYPE H Wood (m)
4	3000	2500	5000	3000	14000	7000
6	1500	1000	2000	1500	6500	3000
8	850	650	1500	850	3500	1500
10	500	400	1000	500	2000	1000
12	350	280	600	350	1500	800

TUBE CODE

EX: T Standard for "tube"

T ▼	2F ▼	012 ▼	009 ▼	NR ▼	0100 ▼	S ▼
Tube	Material	External size	Internal size	Colour	Roll lenght	Packaging

MATERIAL	COLOUR	ROLL LENGHT	PACKAGING
2F PA12PHL	NR Black	0100 100mt	S Standard (PE film)
2H PA12HIPHL	BL Dark blue	1000 1000mt	X No protective film
2Y PA122PHLY	GI Yellow	0025 25mt	A/H/L/D
8F PA10.12PHL	RO Red		Wooden or plastic-drums
1F PA11PHL	SG Yellow striped		W/Y/Q/N
	SG Red striped		Roll in C.Box
	SV Green striped		(4 different sizes)
	SB Blue striped		

COIL CODE

EX: S Standard for "coil"

S ▼	8F ▼	012 ▼	009 ▼	NR ▼	L17 ▼	A ▼	S ▼
Coil	Material	External size	Internal size	Colour	Roll lenght	Kind of fittings	Packaging

MATERIAL	COLOUR	ROLL LENGHT	KIND OF FITTINGS	PACKAGING
8F PA10.12PHL	NR Black	L17 17 Turns	A 2 Fittings M15x1,5	S Standard
2F PA12PHL	BL Dark blue	S21 21 Turns	C 1 Fitting M16x1,5 (internal 18), 1 Fitting M22 (internal 1/2")	I Wrapped spiral
UC PU	GI Yellow		F 1 Fitting M16x1,5 (internal 18), 1 Fitting M16x1,5 (internal 1/2")	
	RO Red		G 2 Black plastic protection springs	
			Q 2 Red plastic protection springs	
			R 2 Yellow plastic protection springs	

CHEMICAL RESISTANCE AT +23°C

SUBSTANCE	C.BEST PA12	C.BIO PA11	C.PRO PA10.12	C.MECH TPC-ET	C.MLT 533 Multilayer
ACETALDEHYDE	+++	+++	+++	-	+++
ACETIC ACID	+++	+++	+++	+++	+++
ACETONE	+++	+++	+++	+++	+++
ACETYLENE	+++	+++	+++	+++	+++
AMMONIA LIQUID	+++	+++	+++	0	+++
AMYL ACETATE	+++	+++	+++	+++	+++
ANILINE	++	++	++	0	++
ANTIFREEZE	+++	+++	+++	-	+++
BENZOL	++	++	++	++	++
BENZYL ACOHOL	0	0	0	-	0
BROMINE	0	0	0	+++	0
BUTANE	+++	+++	+++	+++	+++
BUTANOL	+++	+++	+++	-	+++
CARBON TETRACHLORIDE	+	+	+	0	+
CHLORINE	0	0	0	0	0
CHLOROBENZOL	0	0	0	0	0
CHLOROFORM	0	0	0	0	0
CITRIC ACID	+++	+++	+++	+++	+++
CONCENTRATED SULPHURIC ACID	0	0	0	0	0
CRESOL	+	+	+	-	+
DECALINE	+++	+++	+++	-	+++
ENGINE OIL	+++	+++	+++	+++	+++
ETHANOL	+++	+++	+++	+	+++
ETHER	+++	+++	+++	+	+++
ETHYL ACETATE	+++	+++	+++	+	+++
ETHYL OXIDE	+++	+++	+++	+++	+++
FORMALDEYDE	+	+	+	+	+
FORMIC ACID	+	+	+	+	+
FRIGEN F 12 LIQUID	++	++	++	++	++
GASOIL	+++	+++	+++	+++	+++

LEGEND +++ ▶ Good resistance ++ ▶ Swelling action + ▶ Limited resistance 0 ▶ Poor resistance - ▶ No information available

CHEMICAL RESISTANCE AT +23°C

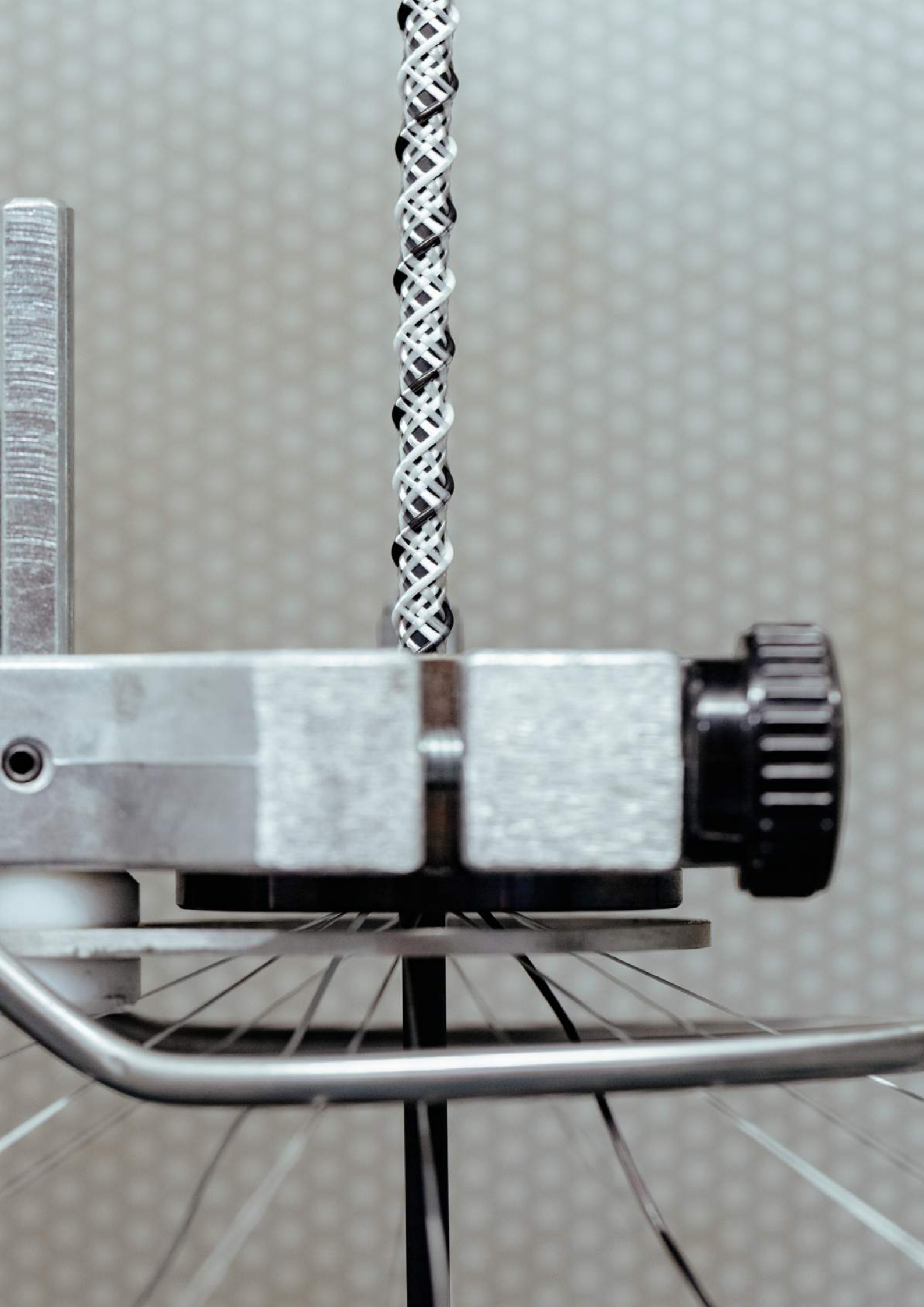
SUBSTANCE	C.BEST PA12	C.BIO PA11	C.PRO PA10.12	C.MECH TPC-ET	C.MLT 533 Multilayer
GLYCERIN	+++	+++	+++	+++	+++
GLYCOLE	+++	+++	+++	-	+++
HEPTANE	+++	+++	+++	-	+++
HYDRAULIC OIL	+++	+++	+++	-	+++
HYDROCHLORIC ACID 1%	+	+	+	+	+
HYDROCHLORIC ACID 10%	+	+	+	+++	+
HYDROGEN PEROXIDE 20%	+	+	+	+	+
ISOOCTANE	+++	+++	+++	+++	+++
KEROSENE	+++	+++	+++	+	+++
LACTIC ACID	+++	+++	+++	+	+++
MAGNESIUM CHLORIDE 10%	+++	+++	+++	+	+++
MERCURY	+++	+++	+++	+++	+++
METHANOL	+	+	+	-	+
METHYLENE CHLORIDE	+++	+++	+++	0	+++
MINERAL OIL	+++	+++	+++	+++	+++
NAPHTHA	+++	+++	+++	+++	+++
NAPHTHALENE	+++	+++	+++	+	+++
NITRIC ACID	0	0	0	+++	0
NITROBENZOL	+	+	+	0	+
OILS	+++	+++	+++	+++	+++
OLEIC ACID	+++	+++	+++	+++	+++
OLEUM	+	+	+	0	+
OXALIC ACID	+++	+++	+++	-	+++
OXIGEN	+++	+++	+++	-	+++
OZONE	+++	+++	+++	+	+++
PARAFIN OIL	+++	+++	+++	+	+++
PERCHLOROETHYLENE	0	0	0	0	0
PETROL	+++	+++	+++	+	+++
PHENOL	0	0	0	0	0
POTASSIUM CARBONATE	+++	+++	+++	-	+++

LEGEND +++ ▶ Good resistance ++ ▶ Swelling action + ▶ Limited resistance 0 ▶ Poor resistance - ▶ No information available

CHEMICAL RESISTANCE AT +23°C

SUBSTANCE	C.BEST PA12	C.BIO PA11	C.PRO PA10.12	C.MECH TPC-ET	C.MLT 533 Multilayer
POTASSIUM HYDROXIDE 10%	+++	+++	+++	+++	+++
POTASSIUM PERMANGANATE	0	0	0	-	0
PROPANE	+++	+++	+++	-	+++
PYRIDINE	0	0	0	0	0
SEA WATER	+++	+++	+++	+++	+++
SILICON OIL	+++	+++	+++	+++	+++
SOAP SUDS	+++	+++	+++	+++	+++
SODA 10%	+++	+++	+++	-	+++
SODIUM CARBONATE 10%	+++	+++	+++	-	+++
SODIUM CARBONATE 50%	+	+	+	-	+
SODIUM CHLORIDE	+++	+++	+++	-	+++
SODIUM SULPHATE	+++	+++	+++	-	+++
STARCH	+++	+++	+++	-	+++
STEARIC ACID	+++	+++	+++	0	+++
STEARINE	+++	+++	+++	-	+++
STYRENE	+++	+++	+++	0	+++
SULOHUR CHLORIDE	+	+	+	-	+
SULPHURIC ACID 10%	+	+	+	+	+
TALLOW	+++	+++	+++	-	+++
TARTARIC ACID	+++	+++	+++	0	+++
TOLUEN	+++	+++	+++	++	+++
TRANSFORMER OIL	+++	+++	+++	0	+++
TRICHLORETHANE	+	+	+	+	+
TURPENTINE	+++	+++	+++	+++	+++
UREA	+++	+++	+++	0	+++
UREIC ACID	+++	+++	+++	0	+++
VASELINE	+++	+++	+++	-	+++
WATER (<70°C)	+++	+++	+++	+++	+++
WAX	+++	+++	+++	-	+++
ZINC CHLORIDE (water based)	+++	+++	+++	+++	+++

LEGEND +++ ▶ Good resistance ++ ▶ Swelling action + ▶ Limited resistance 0 ▶ Poor resistance - ▶ No information available





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The flexible way

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