

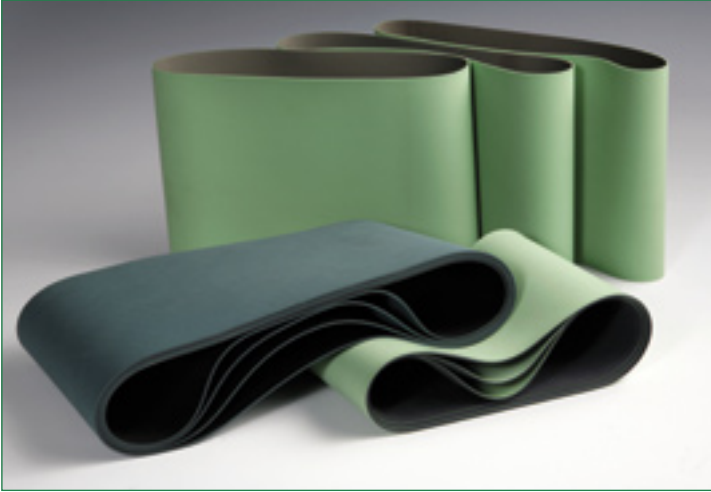
Ideas in motion



Rubber products for the textile industry



Spinning aprons



The CHIORINO spinning aprons are made of synthetic antistatic rubber and are manufactured on extremely automated lines capable of ensuring very high quality standards.

They are composed of two outside elastomer layers and of a spiral-shaped textile insert with exceptional resistance.

Advantages:

- great uniformity in spinning;
- very good resistance to wear, spinning oils and cracking caused by ozone.

Cots for pressure rollers



The CHIORINO range of rubber cots has kept up with the technological evolution of the textile machinery, regarding both innovative spinning systems and development of the quality and count of fibres processed.

Advantages:

- total absence of winding;
- highly conductive surface, which can be ground to a mirror-finish;
- excellent fibre control, thanks to elasticity and permanent friction;
- perfect seal thanks to various types of available reinforcement and direct vulcanization.

Type	Colour outer / inner	Characteristics and applications
T/E	light green / anthracite	Wide bottom apron for NSC spinning frames.
LB	dark green / black	For special processing (linen and jute for example). Especially recommended as single bottom apron.
X46	light green / anthracite	All-rubber wide apron suitable for control assembly on NSC finishers.

Type	Colour	Hardness Sh.A	Characteristics and applications
T70	brick	67	Good elastic regeneration. Good antistatic value.
C83	grey	80	For spinning frames, drawing frames, drawing frame finishers and wool drawing frames with high pressures.
SA80	black	80	Wear- and cut-resistant for linen wet-spinning.

Executions	
Standard	All rubber. To be fitted with adhesive.
"AB" Auto-Block	Core in metal alloy suitable for fitting without adhesive on rollers with tolerance range +0 -0,01 mm.
"RR" Rubber Reinforcement	With ebonite cushion. Can be fitted without adhesive to work with low loads.
"SB" Self-Block	Ebonite cushion with thin spiral-shaped textile reinforcement. Suitable for fitting without adhesive.
"V" Vulcanized	Vulcanized rubber directly onto the metal or plastic roller.
Finish	
Rough-textured	Rough external surface with extra thickness, to obtain the required diameter after grinding.
Ground	Smooth surface and external diameter already to size.

Texturizing aprons



Aprons produced for processing of continuous filament synthetic fibres on drawing frames, twisters, draw-twistors, texturizers and draw-texturing machines.

Double elastomer layer with special CHIORINO spiral-shaped textile insert, particularly suitable for high speed, it is not subject to vertical or transversal vibrations and has high load at break.

Purposely designed for the heavy loads of the apron-holder units and for accidental overloading.

Texturizing cots



Cots produced for processing of continuous filament synthetic fibres on drawing frames, twisters, draw-twistors, texturizers and draw-texturing machines.

Advantages:

- high coefficient of friction;
- resistance to spinning oils;
- very good wear-resistance with heat, even after prolonged running period;
- good antistaticity;
- high resistance to aging and cracking.

Type	Colour outer / inner	Characteristics
X74	green / anthracite	Perfect ratio of the friction coefficients. Utmost resistance to abrasion and swelling.
Y9	yellow / anthracite	Ultra-high resistance to abrasion even under hot conditions. Long life.

Type	Colour	Hardness Sh.A	Characteristics
T70	brick	67	Good elastic regeneration. Good antistatic value.

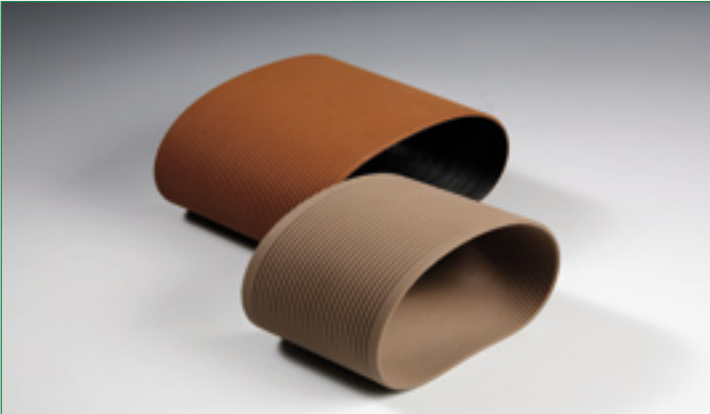
Executions

Standard		All rubber. To be fitted with adhesive.
"RR" Rubber Reinforcement		With ebonite cushion. Can be fitted without adhesive to work with low loads.
"SB" Self-Block		Ebonite cushion with thin spiral-shaped textile reinforcement. Suitable for fitting without adhesive.
"V" Vulcanized		Rubber vulcanized directly on metal roller. Special CHIORINO system suitable for high-temperature applications and high peripheral speeds (over 1500 m/min). Can be also supplied on metal or plastic shells, already rubberized, ground and balanced.

Finish

Rough-textured		Rough external surface with extra thickness, to obtain the required diameter after grinding.
Ground		Smooth surface and external diameter already to size.

Rubbing aprons



Products featuring exclusive CHIORINO technology, which guarantees uniform sizes and consistency of specifications; a best selling-line in time, preferred for its special properties:

- high flexibility and absence of elongation in time, thanks to the elasticity and low hysteresis of the rubber compounds especially formulated in the CHIORINO researching labs;
- excellent rubbing power throughout the apron life;
- maximum resistance to wear and harsh chemicals.

Condenser rub aprons



Produced using highly specialized technology and materials, the CHIORINO condenser rub aprons are appreciated all over the world thanks to the following qualities:

- excellent rubbing;
- high carcass resistance;
- very good resistance to spinning oils;
- long life: thousands of sets work on any type of condenser and with any type of fibre.

Condenser rub aprons



Products featuring exclusive CHIORINO technology, they provide the basic component of the expanding units with rotating bending rollers. They are particularly performing in the finishing machines, control phases of plastic films and paper processing mills:

- exceptionally high resistance to wear;
- maintenance of surface friction through time, even in presence of chemical and physical agents;
- different ranges of types and structures (also for specific applications) allowing use on any machine with any type of material.

Type	Colour outer / inner	Characteristics
H	brownish red / black	Good rubbing power. Utmost resistance to abrasion and oils. Good elastic regeneration.
F	hazelnut / hazelnut	Utmost resistance to abrasion, to oils and good elastic regeneration.

The working surface is normally provided with **helicoidal grooves** with pitch:

- 1,5 mm = 67 grooves/dm (extra-fine grooving);
- 3,5 mm = 28 grooves/dm;
- 4,0 mm = 25 grooves/dm.

The rubbing aprons may have **straight and/or rounded side ends**.

Standard versions are executed according to the machine manufacturer's specifications.

Type	Colour outer / inner	Characteristics and applications
H	brownish red	For all fibres, also light-colour ones.
N	black	For heavy-duty. Not recommended for light colours. With extra-fine grooving can be used for fibres replacing absestos.
X874	brown	Special type, suitable where high resistance to wear is required.

FINISH

Ends

- **Standard:** recessed by about 1 mm in the button area. Rivets embedded.
- **On request:** not embedded rivets and recessed ends.

Buttons

- **Standard:** made of impact-proof polyamide with rounded edges (ø 18 mm, h 9 mm, pitch approx. 40 mm).
- **On request:** smaller buttons recommended for condenser with small diameter rollers (12 mm, h 6 mm, pitch approx 35 mm).

GROOVING

- **Standard:** 20 gvs/dm with "b" groove type.
- **On request:** number of grooves and groove type according to the table below. Aprons with **smooth finish** can be supplied on request.

Grooves/dm	Applications	Type	Width (mm)	Depth (mm)
16, 18	For all types	a	1,0	0,8
20, 22, 24		b	1,2	0,9
		c	1,5	1,0
		z	0,8	0,7

Type	Colour	Hardn. Sh.A	Temp. res. °C min. max	Characteristics and applications
AL/H 60	brown	55	-10 +130	Excellent resistance to natural and synthetic oils and fats. Good resistance to alcohols.
AL/N 60	black	60	-10 +130	Excellent resistance to natural and synthetic oils and fats. Good resistance to acid and basic solutions at room temperature.
AL/NP 60	white	60	-10 +100	Good resistance to oils and fats. Particularly recommended for washing and mercerization.
AL/NP 70	black	70	-10 +100	Good resistance to ozone and alcohols. Good mechanical properties. Suitable for expanding rollers that handle plastic films and paper.
AL/E 60	black	60	-35 +140	Good resistance to acids, alkalics and hydrogen peroxide even in highly concentrated solutions and at high temperatures.
AL/X 70	black	70	0 +130	Excellent resistance to abrasion. Used for expanding rollers that process paper and abrasive materials.

STRUCTURE

- **Standard:** all rubber.
- **"RF":** cushion in wear-resistant rubber, with polyester cord reinforcement. Recommended for large rollers.

FINISH

Finely-ground smooth surface.

■ Chiorino Veneto
■ Chiorino Parma
■ United Kingdom
■ France
■ Spain
■ Deutschland
■ Netherlands

WORLDWIDE CHIORINO

■ Poland
■ Byelorussia
■ Hungary
■ Romania
■ U.S.A.
■ South Africa
■ Singapore
■ Australia

CHIORINO S.p.A.

Via S. Agata, 9 :: I-13900 Biella
Tel. +39 015 8489 1 :: Fax +39 015 849 61 61

www.chiorino.com