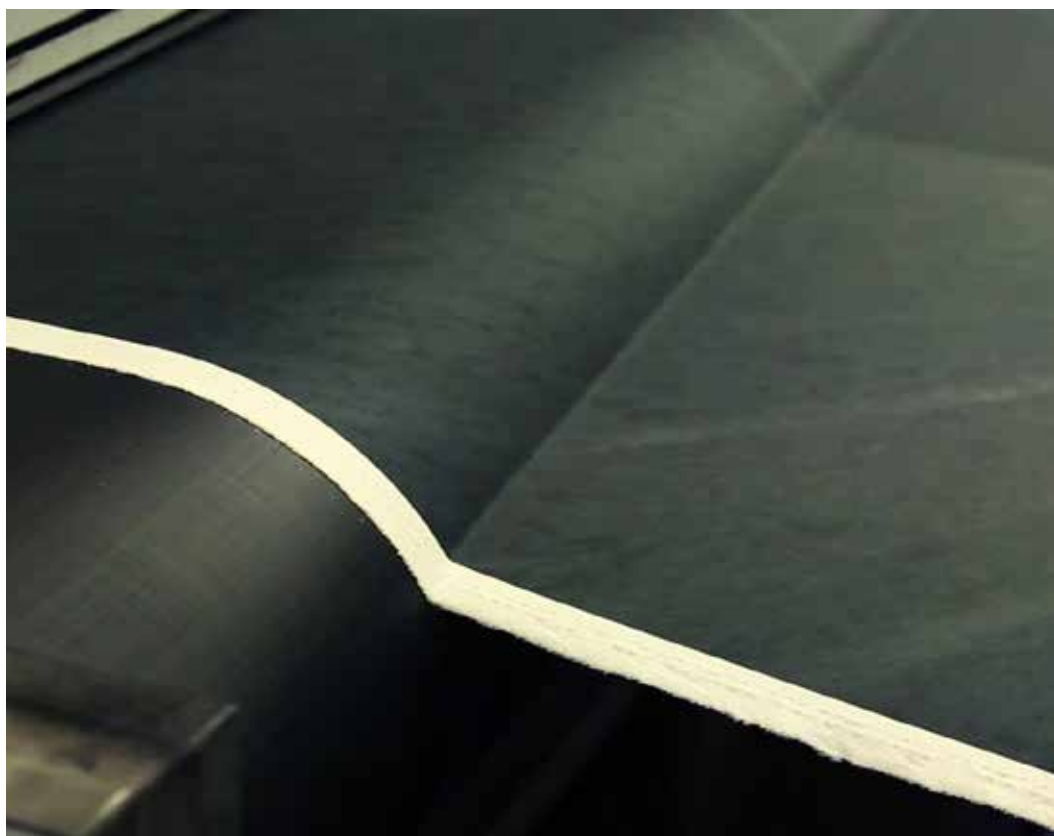




Passion for belting

**Your partner
for product excellence**

Conveyor belts
Tangential belts
Technical items

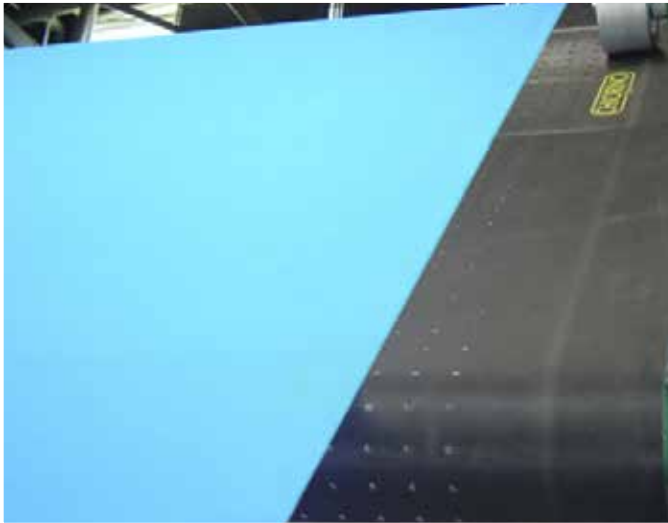


Textile industry

Conveyor belts Tangential belts Technical items

Chiorino produces a complete range of high performance items able to meet all application requirements of the whole textile cycle, from yarn production to printing, cutting and packaging.

Chiorino **textile Culture & Experience**, the constant attention to the technological developments of the market and the expertise of our R&D laboratories in developing customized solutions make Chiorino the ideal partner for OEMs and endusers of the textile sector all over the world.



PB[®]
X-Motion[®]

Printing blankets for textile printing

Chiorino printing blankets have been developed to fulfill technical and economical requirements according to latest market trends.

The Chiorino special thermoplastic polyurethane cover layer is a breakthrough in printing blanket innovation, combining precision, high chemical & temperature resistance and excellent compressibility to achieve optimum printing results and long service life.

- > **DIGITAL PRINTING**
- > **ROTARY PRINTING**
- > **FLAT-BED PRINTING**

Benefits

- **Excellent printing accuracy**
- **Highest working reliability**
- **Excellent resistance to inks and chemicals**
- **Long service life**
- **Easy and fast on-site installation**
- **Increased productivity**
- **Cost saving**



Conveyor and process belts

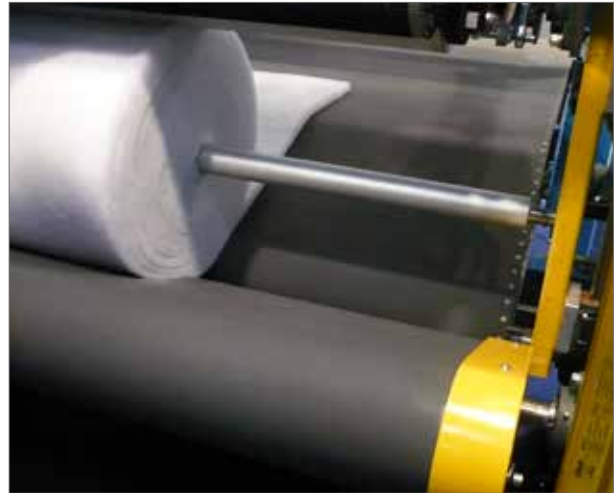
Nonwoven and diapers

Chiorino polyurethane belts for nonwoven production are developed in close co-operation with OEMs and endusers and meet the increasingly growing demands for light-weighted, fast and mechanically performing machines.

- > **CROSS-LAPPERS**
- > **DIAPERS PRODUCTION**

Benefits

- **High conductivity**
- **Suitable for high speeds**
- **Excellent evenness**
- **Excellent mechanical resistance**
- **High resistance to oils, greases and chemicals**
- **Long service life**



Finishing, cutting and packaging

Chiorino wide offer meets belt demand for any kind of application.

- > **FABRIC INSPECTION**
- > **AUTOMATIC CUTTING**
- > **PACKAGING**

Benefits

- **Asolute conveying precision**
- **Low noise**
- **No damage to fabrics**
- **Optimal friction coefficient**
- **High cut resistance**
- **Air permeable**
- **Long service life**



Industrial laundries

Chiorino supplies first equipment belts to the leading manufacturer of industrial laundries. The wide range of Chiorino belts satisfy all the requirements for belts with textile carcass and for FAST JOINT elastic belts which ensure an easy and quick installation on site. Chiorino supplies belts with high precision perforations.

Benefits

- **High resistance to wear**
- **Total conveying uniformity**
- **Low noise**
- **Excellent drag**
- **No damage to textiles**
- **Easy and quick installation of Fast Joint belts**
- **Long service life**



Printing blankets - Conveyor belts

Production program

Code	Type	Conveying surface coating		Driving surface coating		Textile carcass	Perm. antistatic	Total thickness	Min. diameter (1)	Pull for 1% elong. (2)	Max. admiss. pull	Temperature resistance (3)		Coeff. of friction (4)	Max. produc. width	
		Material	Colour	Material	Colour							min. °C	max. °C			
NA-1386	PB-215	TPU	●	TPU	●	PET	✓	2.15	80	15	20	-20	100	LF	2100	
NA-1390	PB-265	TPU	●	TPU	●	PET	✓	2.65	100	15	20	-20	100	LF	2100	
NA-1392	PB-265 SP	TPU	●	TPU	●	PET	✓	2.65	100	15	20	-20	100	LF	3500	
NA-1204	XM-3 E/U10 N	TPU	●	PET	●	PET	✓	2.60	100	20	30	-20	100	LF	2000	
NA-96	EL2-U10 FL	TPU	●	TPU	●	---	✓	1.00	10	2	2	-20	60	MF	2000	
NA-97	EL3-U15 FL	TPU	●	TPU	●	---	✓	1.50	10	3	3	-20	60	MF	2000	
NA-405	EL4-U20 FH	TPU	●	TPU	●	---		2.10	10	4	4	-20	60	MF	2000	
NA-899	EL4-U20 HP blue	TPU	●	TPU	●	---		2.00	10	4	4	-30	60	MF	2000	
NA-99	1M6 U0-U5 FL	TPU	●	TPU	●	PET	✓	1.00	10	6	6	-20	100	MF	2000	
NA-1255	2M10 U0-U2 N HC SP	TPU	●	TPU	●	PET	✓	1.20	4	10	10	-20	100	LF	3600	
NA-394	2M12 U0-V-U0 GR	TPU	●	TPU	●	PET	✓	1.70	40	12	24	-10	60	LF	3000	
NA-1289	2M12 U0-U2 SP	TPU	●	TPU	○	PET	✓	1.50	6	8	16	-20	100	MF	3600	
NA-1128	2M12 U0-U17	TPU	●	TPU	●	PET	✓	3.40	80	12	24	-20	100	LF	2000	
NA-538	3M8 U0-U3	TPU	●	TPU	●	PET	✓	2.20	60	10	20	-20	100	LF	2100	
NA-509	1M6 U0-V3 A N	PVC	●	TPU	●	PET	✓	0.85	20	6	6	-10	60	LF	3500	
NA-281	2T5 0-V-0	PET	○	PET	○	PET	✓	1.60	20	5	10	-10	60	LF	2000	
NA-49	2MT5 U0-V3 N	PVC	●	TPU	○	PET	✓	1.80	20	6	12	-10	60	LF	3000	
NA-606	2MT5 U0-V3 SM N	PVC	●	TPU	○	PET	✓	1.90	20	6	12	-10	60	LF	2000	
NA-91	2M8 U0-V-U0	TPU	○	TPU	○	PET	✓	1.50	30	8	16	-10	60	LF	3000	
NA-30	2M8 U0-V5 A	PVC	●	TPU	●	PET	✓	2.00	30	8	16	-10	60	MF	3500	
NA-31	2M8 U0-V5 FM	PVC	●	TPU	●	PET	✓	2.10	30	8	16	-10	60	MF	3000	
NA-189	2M8 U0-V5 FM N	PVC	●	TPU	●	PET	✓	2.10	30	8	16	-10	60	HF	3000	
NA-942	2M8 U0-V5 PS GR	PVC	●	TPU	○	PET	✓	2.30	30	8	16	-10	60	HF	500	
NA-220	2M8 U0-V5 RT GR	PVC	●	TPU	●	PET	✓	2.20	30	8	16	-10	60	HF	2000	
NA-32	2M8 U0-V17 GP	PVC	●	TPU	●	PET	✓	5.20	50	8	16	-10	60	HF	2000	
NA-33	2M12 U0-V8 RT	PVC	●	TPU	●	PET	✓	2.30	40	12	24	-10	60	HF	2000	
NA-258	2M12 U0-V10 RT	PVC	●	TPU	●	PET	✓	2.60	50	12	24	-10	60	HF	2000	
NA-40	2T12 U0-V10	PVC	●	TPU	●	PET	✓	2.40	40	12	24	-10	60	HF	2000	
NA-242	2M12 U0-V15 GPL N	PVC	●	TPU	●	PET	✓	3.80	60	12	24	-10	60	HF	2000	
NA-35	2M12 U0-V20 GP	PVC	●	TPU	●	PET	✓	5.50	50	12	24	-10	60	HF	2000	
NA-42	3T18 U0-V15	PVC	●	TPU	●	PET	✓	4.20	100	18	36	-10	60	MF	3000	
NA-118	2M8 U0-U-G10 FH	Elastomer	●	TPU	●	PET	✓	2.30	50	8	16	-20	100	HF	1800	
NA-1135	2T12 U0-U-G10 HS FH	Elastomer	●	TPU	●	PET	✓	2.20	50	12	24	-20	100	HF	1800	
NA-224	SILON 25 W	PET	○	PET	○	PET		2.50	30	10	10	-20	100	LF	2000	
NA-225	SILON 25 HC	PET	●	PET	●	PET	✓	2.50	30	10	10	-20	100	LF	2000	
NA-305	SILON 40 HC	PET	●	PET	●	PET	✓	4.00	50	10	10	-20	100	LF	2000	

(1) Minimum roller diameter is dependent on the joint recommended by Chiorino.

(2) Elastic belts "EL": pull for 8% elongation.

(3) Use of the belt with limit values may reduce its life.

(4) Conveying surface coefficient of friction: **LF** low, **MF** medium, **HF** high.

The data of this table have been formulated under normal environment conditions. They are subject to alteration without notice.

Belts for tangential drives

Spindle tapes



Belts for tangential drives

CHIORINO produces a wide range of belts for tangential drives able to meet the requirements of the most recent machinery for any application:

- > SPINNING MACHINES
- > OPEN-END
- > TEXTURIZING MACHINES

Thermoplastic belts with *CHIO-TPE* intermediate layer

- Reduced energy consumption
- High temperature resistance
- Reliable FASTJOINT



Polyamide belts with */HS*® elastomer cover

- High abrasion resistance
- Excellent resilience
- Long service life



Spindle tapes

The CHIORINO tapes are suitable to work at high speed on small diameters spindles, without any dimensional alteration, offering many competitive advantages:

- Energy saving
- Excellent flexibility
- High chemical-physical-mechanical resistances
- Low noise
- Uniformity of yarn count
- No dust accumulation on edges
- Long service life

The thermoplastic ST06 type can be fitted on site with the CHIORINO FAST JOINT systems and equipment.

Production program

Code	Type	Top and driving surface	Top colour	Traction core	Perm. antist.	Total thickn.	Min. diam. ⁽¹⁾	K1% rel.	Temperature resistance											
									min.	max.										
						mm	mm	N/mm	°C	°C	Carding	Draw frame	OE spinning	Ring spinning	TFO Spun yarn	TFO Filament	Draw textured Yarn	Covering	Overhead cleaner	Circular knitting

Thermoplastic belts with *CHIO-TPE* intermediate layer

T-A Aramid																			
CG-256	T60/30A	Elastomer	●	Aramid	✓	3.00	80	60	-20	80					✓				
T-E Polyester																			
CG-325	T25/20E	Elastomer	●	Polyester	✓	2.00	25	17	-20	80	✓	✓		✓					
CG-331	T25/25E	"	●	"	✓	2.50	40	17	-20	80	✓	✓	✓	✓		✓		✓	
CG-329	T40/25E	"	●	"	✓	2.50	50	18	-20	80			✓			✓		✓	
CG-332	T40/30E	"	●	"	✓	3.00	50	19	-20	80				✓					
CG-328	T55/30E	"	●	"	✓	3.00	50	25	-20	80				✓	✓		✓		

Polyamide belts with *HS* elastomer cover

CG-334	T0 HS	HS® Elastomer	●	Polyamide	✓	1.40	20	2	-20	100									✓
CG-335	T1 HS	"	●	"	✓	1.50	25	5	-20	100									✓
CG-341	T1R HS	"	●	"	✓	2.10	25	5	-20	100	✓					✓			✓
CG-336	T2 HS	"	●	"	✓	2.35	60	8	-20	100		✓				✓		✓	✓
CG-342	T2R HS	"	●	"	✓	3.00	60	8	-20	100						✓		✓	✓
CG-337	T3 HS	"	●	"	✓	2.60	100	11	-20	100	✓	✓	✓			✓		✓	
CG-343	T3R HS	"	●	"	✓	3.20	100	11	-20	100				✓		✓			
CG-338	T4 HS	"	●	"	✓	3.10	150	12.5	-20	100	✓			✓	✓		✓		
CG-344	T4R HS	"	●	"	✓	3.90	150	12.5	-20	100				✓	✓		✓		
CG-339	T6 HS	"	●	"	✓	3.50	200	18	-20	100				✓			✓		

Open End

T-E OE Polyester																			
CG-317	T40/26E-OE	Elastomer	●	Polyester	✓	2.60	50	18	-20	80			✓					✓	

(1) The diameter values listed here are dependent upon the running speed.
The data in this chart are valid under normal environmental conditions and are subject to change without notice.

Code	Type	Top surface			Traction core	Driving surface			Perm. antist.	Thickness	Min. diam. (1)	Pull for 1% elong.	Max. adm. pull	Temperature resistance	
		Material	Colour	Coeff. friction on steel		Material	Colour	Coeff. friction on steel						min.	max.
										mm	mm	N/mm	N/mm	°C	°C

Thermoplastic spindle tape



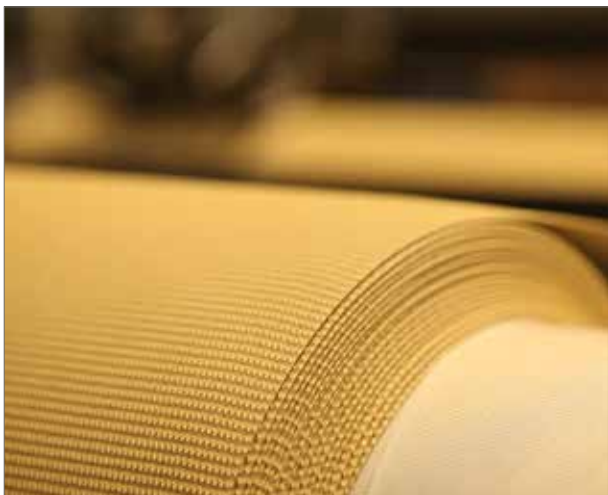
NA-1150	ST06	TPU	●	-	Polyester	TPU impregn. fabric	●	0.2	✓	0.60	10	4	4	-30	100
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Spindle tapes with polyamide traction core

NA-140	CNG	Elastomer	●	-	Polyamide	Polyamide	●	0.2	✓	0.70	20	2	4	-20	100
NA-145	CNPG	"	●	-	"	"	●	0.2	✓	1.00	20	2	4	0	100

(1) The above mentioned values depend on the type of CHIORINO joint recommended.
The data of this table have been formulated under normal environment conditions. They are subject to alteration without notice.

TEXGUM® Roller coverings



CHIORINO produces a wide range of TEXGUM® roller coverings designed to increase the coefficient of friction of rollers, suitable for any type of fabric, including the thinnest, and for any application in the weaving and finishing industry.

The CHIORINO roller coverings are fully-cycle produced with elastomers designed by the R&D Labs to meet specific requirements.

The comprehensive range offers technical qualities such as:

- **High quality textile carcass with very good dimensional stability even for wet processing**
- **High wear resistant covers**
- **Excellent chemical resistance**
- **High constant quality due to the fully automated cycle of production control**
- **Long service life**

Characteristics

- **Textile carcass:** polyester fabric, except for the FG types (fiberglass), FLO (non woven).
- **Self-adhesive version (/A):** can be supplied for all types, except for SI0-FG, SI0-FG tr, SI2-FG.
- **Roll's width:** available in 50 - 70 mm. Other widths upon request.



Recommendations for fitting

Clean rollers thoroughly by means of non oily solvent. To wrap the roller covering spiral-wise, cut the end of the covering aslant by a length equal to the circumference of the roller. Apply the adhesive first to the roller and then to the Texgum covering and wrap the latter while it is still slightly tacky. The silicone adhesive must be applied to the roller only, taking care to wrap the covering on the roller immediately. Then fix the ends of the covering by means of an adhesive tape. Wait for 8 hours before use.

Adhesives

- **Texcol:** for all types, except SI0-FG.
- **Silicone:** for SI0-FG.



Production program

Code	Type	Covering			Thickness mm	Weight Kg/m ²	Temperature resistance		Rolls' length m
		Material	Colour	Hardness Sh.A			min. °C	max. °C	
TX-84	NG0	Natural elastomer	●	50	1.50	1.60	0	100	115
TX-11	NG3		●	50	2.00	2.20	0	100	100
TX-14	NG5		●	50	1.90	2.10	0	100	100
TX-16	NG7		●	50	1.70	1.90	0	100	115
TX-17	NG7-S		●	50	2.50	2.60	0	100	115
TX-166	NG8		●	55	2.00	2.00	0	100	100
TX-36	SG0	Synthetic elastomer	●	55	1.80	2.10	-10	120	115
TX-38	SG0-D		●	75	2.30	2.10	-10	120	115
TX-78	SG0-E		●	50	2.70	2.20	-10	120	115
TX-170	SG0-E nc		●	50	2.70	2.20	-10	120	115
TX-99	SG0-M		●	50	2.20	2.30	-10	120	115
TX-40	SG0-S		●	55	2.50	2.60	-10	120	115
TX-42	SG1		●	55	2.00	2.60	-10	120	115
TX-39	SG1-E		●	40	3.00	2.30	-10	120	115
TX-45	SG3		●	65	2.00	2.20	-10	120	100
TX-48	SG4		●	50	4.20	2.90	-10	120	100
TX-51	SG5		●	65	2.00	1.80	-10	120	100
TX-52	SG6		●	65	2.00	2.30	-10	120	115
TX-55	SG7		○	65	2.00	2.20	-10	120	115
TX-58	SG7 gr		●	65	2.00	2.20	-10	120	115
TX-59	SG7-H		●	65	2.00	2.20	-10	120	115
TX-61	SG7-L		○	65	1.70	2.00	-10	120	115
TX-75	SG7-M		●	50	1.90	1.30	-10	120	115
TX-63	SG7-S		○	65	2.50	2.90	-10	120	115
TX-168	SG8		●	60	2.00	2.10	-10	120	100
TX-165	SG8 HX		●	50	2.50	2.10	-10	120	100
TX-20	PV0	PVC	○	45	1.80	2.00	0	60	115
TX-27	PV0 ve		●	45	1.80	2.00	0	60	115
TX-28	PV5		○	45	2.30	2.40	0	60	100
TX-30	PV5 ve		●	45	2.30	2.40	0	60	115
TX-31	PV6		○	45	1.90	2.00	0	60	115
TX-72	PV6 ve		●	45	1.90	2.00	0	60	115
TX-35	PV7		○	45	1.90	2.00	0	60	115
TX-73	PV7 ve		●	45	1.90	2.00	0	60	115
TX-120	SI0	Silicone	○	50	1.10	1.00	-20	160	115
TX-104	SI0-S		○	50	2.00	2.10	-20	160	115
TX-67	SI0-FG		○	50	1.40	1.30	-50	200	115
TX-68	SI2-FG		○	50	1.50	1.40	-50	200	115
TX-156	SI1 az		●	45	1.60	1.70	-20	150	115
TX-94	NP0/A	Neoprene	●	---	3.50	0.70	-40	70	50
TX-7	FLO		●	---	2.40	0.80	-10	60	50

SG Type of covering
0 Surface pattern
M Special execution

TYPE OF COVERING

FLO Velvet
NG Natural elastomer
NP Neoprene
PV PVC
SG Synthetic elastomer
SI Silicone

SURFACE PATTERNS

0 Smooth
1 Light fabric
2 Medium fabric
3 Heavy fabric
4 Grip face
5 Pimpled
6 Fine sandblast
7 Medium sandblast
8 Heavy sandblast

SPECIAL EXECUTIONS

D High shore hardness
E Foam synthetic elastomer
FG Fiberglass textile carcass
H High performance
HX High performing carboxylic elastomer
L Less rubber
M Soft
S Extra thickness

The data of this table have been formulated under normal environment conditions. They are subject to alteration without notice.

Condenser rub aprons



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

Benefits

- **Excellent rubbing**
- **High carcass resistance**
- **Very good resistance to spinning oils**
- **Long life: they work on any type of condenser and with any type of fibre.**

Production program

Type	Colour	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 asbestos.
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 grooves/dm with “b” groove type.
- **On request:** number of grooves and groove type according to the table on the right. Aprons with smooth finish can be supplied on request.

Grooves/dm	Applications
16, 18 20, 22, 24	For all types

Type	Width (mm)	Depth (mm)
a	1,0	0,8
b	1,2	0,9
c	1,5	1,0
f	0,7	0,9
z	0,8	0,7

Coverings for expanding rollers

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 and tissue control.

Benefits

- **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 allowing use on any machine with any type of material.**



Production program

Type	Colour	Hardness 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 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.

Finish

Standard: all rubber.

“RF”: cushion in wear-resistant rubber, with polyester cord reinforcement. Recommended for large rollers.

Finish: finely-ground smooth surface.