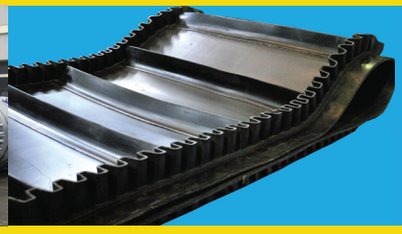
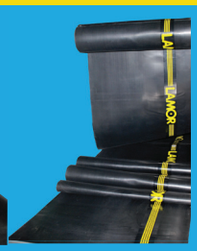
ARTEGO CATALOGUE

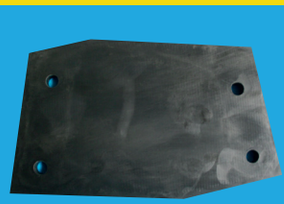
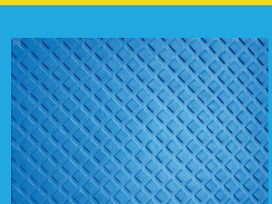
TECHNICAL RUBBER ARTICLES

ARTICOLE TEHNICE DIN CAUCIUC
ARTEGO
TARGU JIU

ARTEGO is the largest manufacturer of technical rubber articles in ROMANIA

ARTEGO PRODUCTS CATALOGUE

SIMPLY CLEVER

CONVEYOR BELTS
SPECIAL PRODUCTS
RUBBER SHEETS
RUBBER GASKETS

MOVING FORWARD INTO THE FUTURE

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MOVING FORWARD INTO THE FUTURE

ARTEGO's history goes back to 1975 when The Industrial Unit for Technical Rubber Items and Reclaimed Rubber was built on the Northern platform of Târgu-Jiu. At the beginning, the unit focused on recycling reclaimed rubber. As years went by, our company had already started manufacturing a wide range of products and had strengthened its economic growth. In 1990 The Industrial Unit for Technical Rubber Items and Reclaimed Rubber became a Joint Stock Company and received the trademark name ARTEGO.

Artego is the single producer of conveyor belts in Romania and the biggest in South East Europe.We manufacture a wide variety of conveyor belts and other products for the Romanian and the European market, exporting to: Italy, Germany, The United Kingdom, Spain, France and The United Arab Emirates.

The name ARTEGO is a well established trademark and is a guarantee for the quality and the promptitude our company employs in answering our customers' demands. We have upgraded with high-quality and modern French equipment such as computer-controlled machines and other devices which ensure the rendering of high-quality products.

Environmental Protection is a top priority for ARTEGO S.A.

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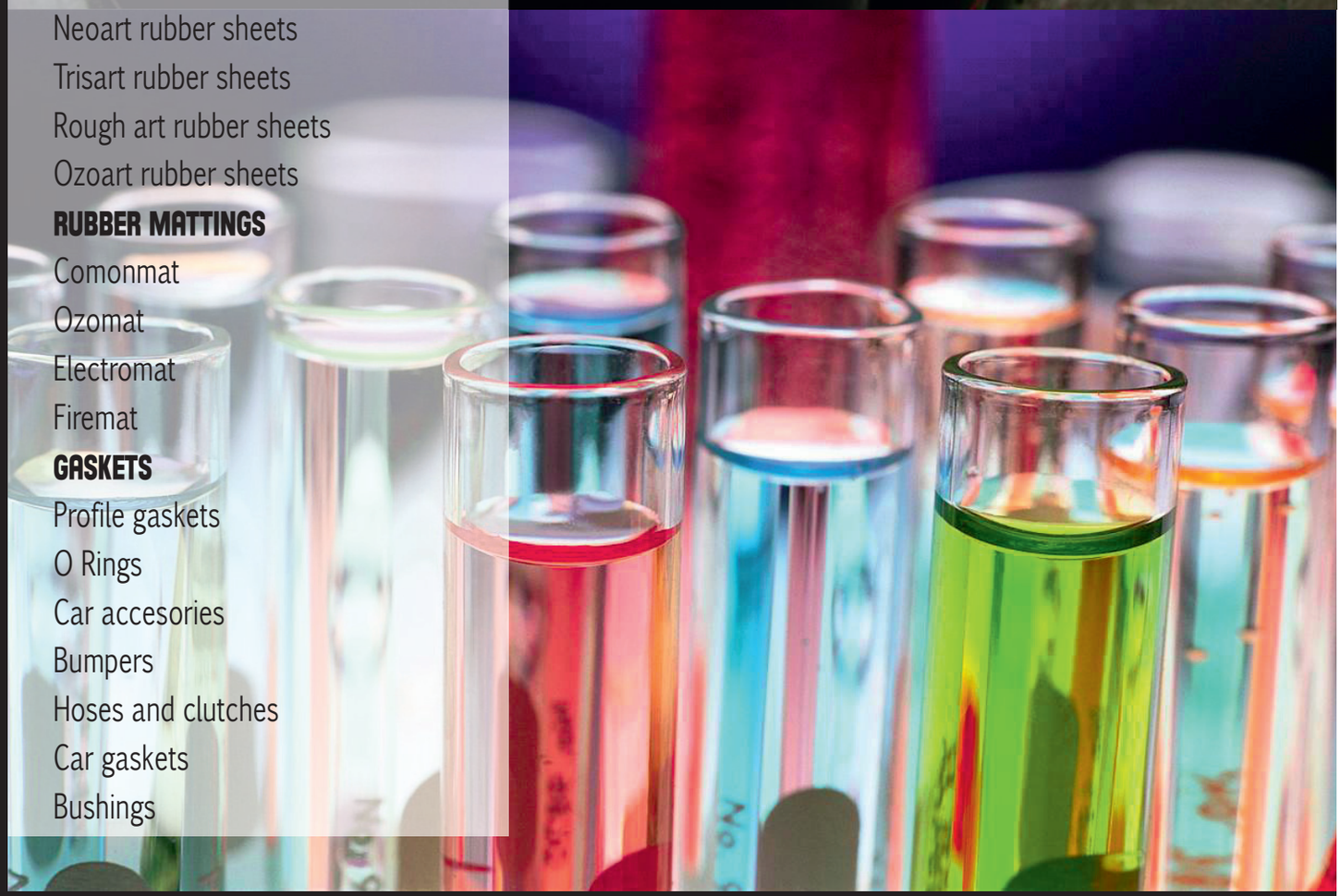
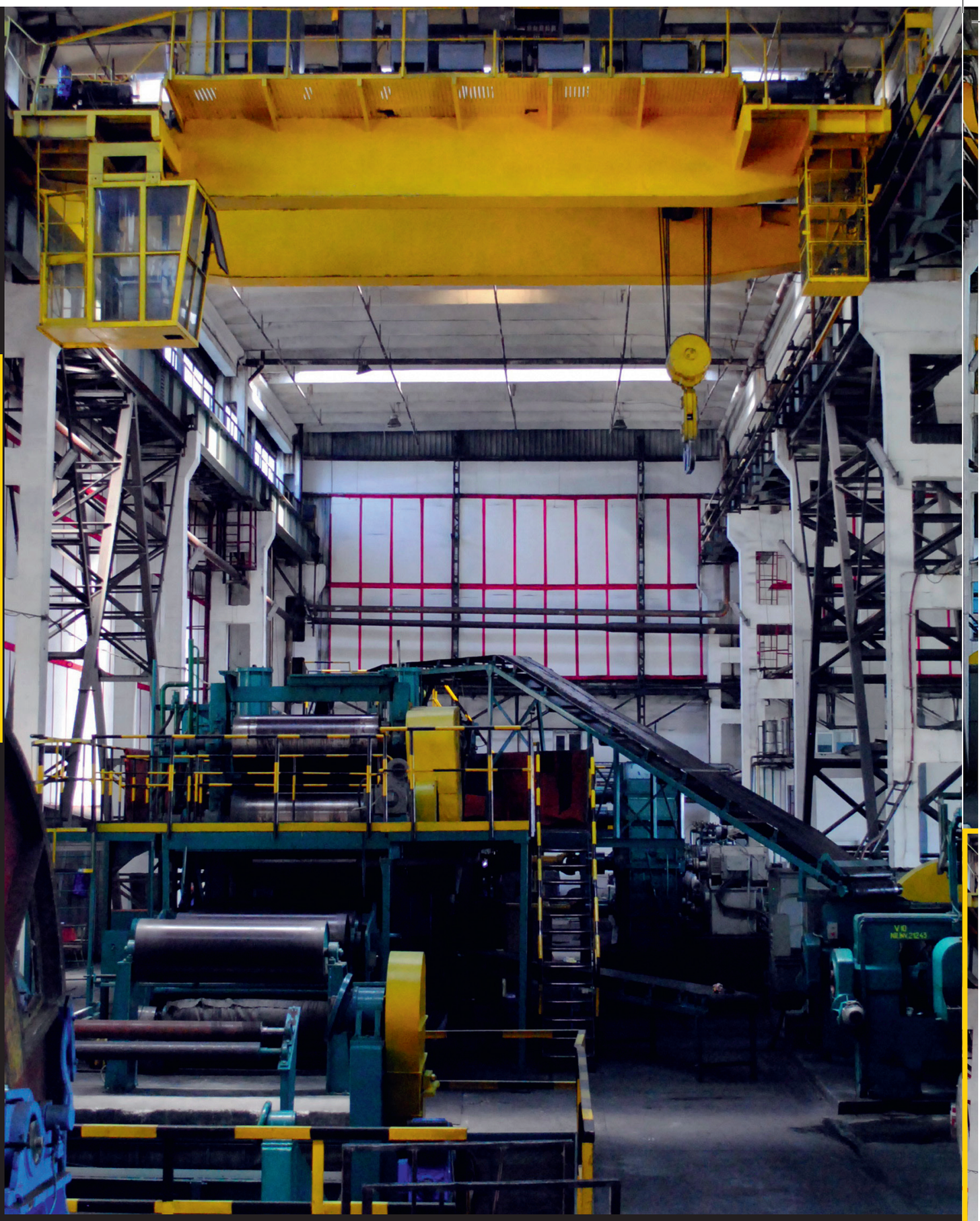


ARTEGO CATALOGUE. TECHNICAL RUBBER ARTICLES

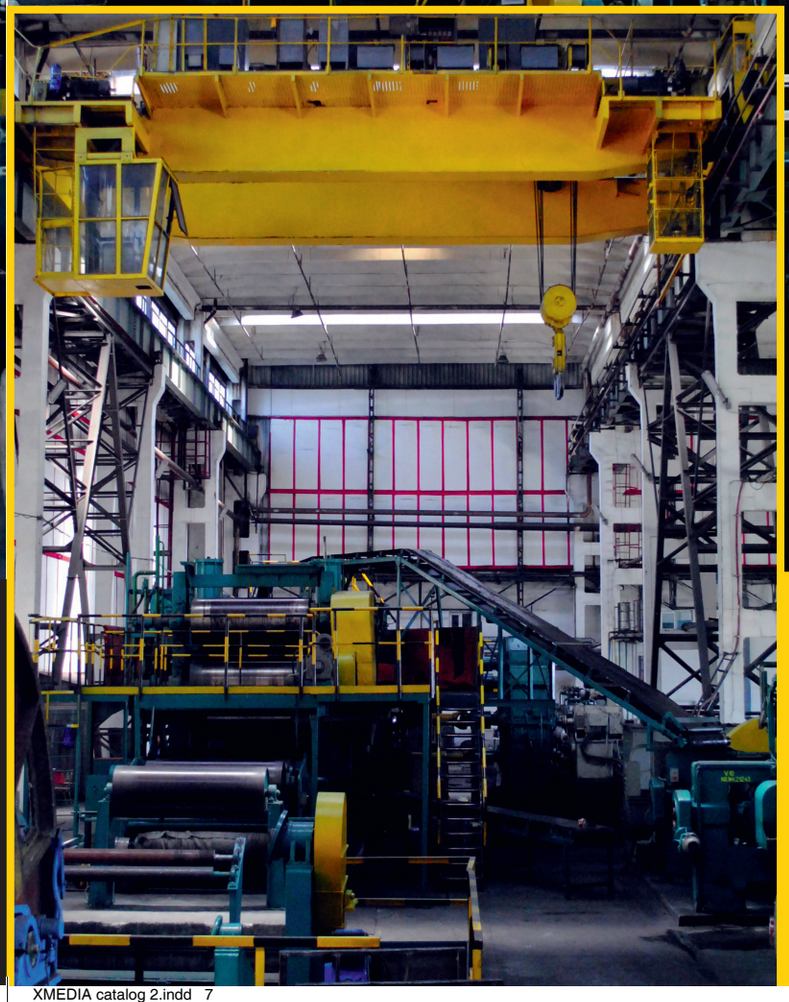
CONVEYOR BELTS



CONVEYOR BELTS

MANUFACTURING DEPARTMENT

CONVEYOR BELTS



CONVEYOR BELTS NEWEST MANUFACTURING FACILITY

Textile reinforced conveyor belts

Applications

General conveyor belts convey loose and bulky materials under typical working conditions. They are suitable for a wide range of industrial processes.This type of belt is widely employed in quarrying, construction industry, steel industry, chemical industry, cement factories, in temperatures ranging from -30 to +70°C. The rubber covers are manufactured according to DIN 22 102 (X, W, Y, Z grades) or on customer's demand.The carcass is made of polyamide / polyester (EP), polyester / polyester (EE).

Product characteristics

Width, mm.	covered edges cut edges		800 - 1800 ± 1% 500 - 1800 ± 1%
Thickness of belt ,mm Thickness of covers, mm			4 - 24 customer demand
Thickness deviation	belt	under 10 mm over 10 mm	± 1 mm ± 10 %
	rubber cover	under 4 mm over 4 mm	0,2 mm / + free 5 % / + free
Length, m Insertions number			customer demand 2 - 6

Characteristics of insertions	type of insertion		EP80, EP100, EP125, EP160, EP200, EP250, EP315, EP400, EP500
Adhesion, kgf/cm, min.	Tensile strength,kgf, (for 50mmx200mm)	longitudinal	500 700 800 1000 1200 1500 2000 2200 2800
		transversal	250 250 350 380 500 500 500 500 500
	between plies		5
	between insertions and rubber covers	under 1.5mm	3.5
		over 1.5mm	4.5
Edges	covered edges cut edges	For added protection, the edges are moulded entirely with rubber covers. The impregnated carcass is completely waterproof and impervious to the ingress of liquids. Thus, cut edges do not represent a risk to belt life.	
Surfaces	both surfaces covered one surface covered and the other uncovered both surfaces uncovered		

Breaking force of conveyor belt,(kgf/cm) It is given by the type and number of insertions

Characteristics of rubber mixture for covers

Belt type Group	Type	Standard	Tensile strength min, daN/cm2	Elongation at break,min (%)	Abrasion loss, max, (mm^3)	Use
1	x	DIN 22102/1-91	250	450	120	These types of rubber covers have characteristics that provide: very high abrasion resistance and cut-and gouge resistance as well as weather resistance. They are employed for heavy impact, large sized lumps and sharp materials.
2	y	DIN 22102 /1-91	200	400	150	The grades of the rubber covers are widely used for general conveyor belts and have superior resistance to abrasion, weather, cutting; they are suitable for handling crushed rocks, limestone, coal and slag.
3	z	DIN 22102/1-91	150	350	250	The grades of the rubber covers are widely used for general conveyor belts at standard quality.
4	w	DIN 22102/1-91	180	400	90	These types of rubber cover have a very high abrasion resistance (less than 90-mm3-abrasion loss), assuring the belt's long lifespan. It is recommended for transporting abrasive materials as well as glass, granite and other abrasive substances.

Antistatic and flame retardant conveyor belts for surface mining

Applications

These types of belts have a good resistance to open flames and protect the entire conveyor against open fire. This high level of protection against fire helps to stop the spread of fire over the belt. These types of belts are used in temperatures ranging from – 30 to +70 °C. The carcass of the belts consists of several plies of EP fabrics separated by rubber interlayer and covered with fire resistant an antistatic rubber covers.

Flame retardant conveyor belts meet all requirements of fire protection standards included in DIN 22 102 and they haveimproved fire resistance (DIN 22 103) and anti-static properties (DIN 22 104). The carcass is made of polyamide/polyester (EP), polyester/polyester (EE) fabrics.

Product characteristics

Dimensions	Width, mm.	800 - 1800 ± 1%
	Thickness of belt , mm	8 - 24
	Thickness of covers, mm	On customer's demand
	Deviation from thickness belt	under 10 mm ± 1 mm
		over 10 mm ± 10 %
	rubber cover	under 4 mm - 0, 2 mm / + free
		over 4 mm - 5 % / + free
	Length, m,	On customer's demand

Characteristics of insertions	Insertions number	2 - 6								
	Type of insertion	EP 80	EP 100	EP 125	EP 160	EP 200	EP 250	EP 315	EP 400	EP 500
Tensile strength, kgf, (for 50mm x 200mm)	longitudinal	500	700	800	1000	1200	1500	2000	2200	2800
	transversal	250	250	350	380	500	500	500	500	500
Adhesion, kgf/cm, min.	between plies	5								
	between insertions and rubber covers				under 1.5 mm		3.5			
					over 1.5 mm		4.5			
	Edges	covered edges								
	Surfaces	both surfaces covered								
	Breaking force of conveyor belt,(kgf/cm)	It is given by the type and number of insertions								

Type cover	Standard	Temperature range	Flame resistant	Carcass Mixture composition	Cover Mixture composition
S	DIN 22102/1-91 S	- 30….. +70 °C	Antistatic and highly inflammable belt	SBR + NR	SBR + NR
K	DIN 22102/1-91 K	- 30….. +70 °C	Antistatic belt with flame resistant covers	SBR + NR	SBR + NR

The type of rubber from cover faces

Belt type		daN/cm2	Tensile strength, min., at break, min. (%)	Elongation max., (mm3)	Abrasion loss,	Electrical resistance resistance of the surface in accordance with SR EN20284 (DIN 22104), Ώ max...	Fire resistant product is in accordance with SR ISO 340(DIN 22103); (flame resistance time after retirement of burner);	
Group	Types	Standards (ARTEGO)					Number for each group of 6 test samples, (s), max.	Number for each tested sample, (s), max.
1.	S	Technical Card 720	150	400	200	3 x 108	45 *)	15 *)
2.	K	Technical Card 654	150	350	200	3 x 108	45 **)	15 **)

*) Fire resistance in accordance with SR ISO 340 (DIN 22103) is established on test samples with or without covers.
**) Fire resistance in accordance with SR ISO 340 (DIN 22103) is established only on test samples with covers.

Oil resistant conveyor belts with textile insertions

Applications

Oil resistant conveyor belts with textile insertions are specially engineered for the transportation of mineral oils and grease-rich materials. They also have a good level of abrasion and increased weather resistance. This type of conveyor belt is recommended for the transportation of oil treated materials.

Upon ordering this type of belt, the beneficiary should mention the following: the type of oil and the approximate oil content, details on temperature range, details on previously used belts. This information will help ARTEGO recommend the best of what we have to our customers.

The carcass is made of polyamide / polyester (EP), polyester / polyester (EE), polyamide / polyamide (PP) fabrics.

Product characteristics

Dimensions	Width, mm.	covered edges	800 - 1800 ± 1%
		cut edges	500 - 1800 ± 1%
	Thickness of belt , mm		4 - 24
	Thickness of covers, mm		On customer's demand
	Deviation from thickness	belt	under 10 mm ± 1 mm
			over 10 mm ± 10 %
		rubber cover	under 4 mm - 0, 2 mm / + free
			over 4 mm - 5 % / + free

Length, m,			On customer's demand							
Characteristics of insertions	Insertions number		2 - 6							
	Type of insertion		EP 80	EP 100	EP 125	EP 160	EP 200	EP 250	EP 315	EP 400	EP 500	
Tensile strength, kgf, (for 50mm x 200mm)		longitudinal	500	700	800	1000	1200	1500	2000	2200	2800
		transversal	250	250	350	380	500	500	500	500	500
Adhesion, kgf/cm, min.		between plies	5								
		between insertions and rubber covers				under 1.5 mm		3.5			
						over 1.5 mm		4.5			

Edges	covered edges	For added protection, the edges can be moulded entirely with rubber covers.
	cut edges	The impregnated carcass is fully waterproof and impervious to ingress of liquids. Cut edges are not a threat of wear for belt life.
Surfaces		-both surfaces covered -one surface covered and the other uncovered -both surfaces uncovered
Breaking force of conveyor belt,(kgf/cm)		It is given by the type and number of insertions

Type cover	Standard	Temperature range	Resistance to oil	Carcass Mixture composition	Cover Mixture composition
ROS	DIN 22102/1-91 G	- 30….+ 100 °C	Excellent oil and grease resistant conveyor belts	NBR + SBR	NBR
G	DIN 22102/1-91 G	- 30….. +80 °C	Good oil resistant conveyor belts	SBR + NBR	NBR + SBR
GM	DIN 22102/1-91 G	- 30 ….+ 70 °C	Medium oil resistant conveyor belts	SBR	NBR + SBR

The type of rubber from cover faces

Belt type		Tensile strength, min., daN/cm2	Elongation at break, min. (%)	Abrasion loss, max., (mm3)	Resistance to oils	
Group Types	Standards (ARTEGO)				ASTM#1 oil Δ V, max, (%)	ASTM#3 oil, Δ V, max, (%)
1. ROS	Technical Card 720	150	350	150	±10 **)	+20**)
2. G	Technical Card 120A	150	350	200	±10 *)	+50 *)
3. GM	Technical Card 608	150	350	200	±15 **)	+50 **)

*) 70 hr * 100 °C Δ V - volume variation;
**) 70 hr * 70 °C

CONVEYOR BELTS

Antistatic, oil and flame resistant conveyor belts

Applications

In order for conveyor belts to transport oil treated materials or greases to mining locations, both underground and above ground, they must be oil resistant, proof against antistatic discharges and resistant to open flame, thus adding to the prevention of fire spreading when an explosion occurs in the galleries of the mine.The carcass of the belts consists of several plies of polyester/ polyamide (EP) fabrics separated by fire and oil resistant rubber interlayer and covered with oil, antistatic and fire resistant rubber covers. The belt is designed for application in temperatures ranging from -30 to +70°C. Upon ordering this type of belt please mention the type and the approximate quantity of oil, details on temperature range, details on the previous usage of the belts, thus helping ARTEGO to help our customers chose the products suitable for them.
The carcass is made of polyamide/polyester (EP), polyester/polyester (EE), polyamide/polyamide (PP) fabrics.

OIL & FLAME RETARDANT CONVEYOR BELTS

Product characteristics

Dimensions	Width, mm.	covered edges		800 - 1600 ± 1%							
		cut edges		500 - 1600 ± 1%							
	Thickness of belt , mm			4 - 24							
	Thickness of covers, mm			On customer's demand							
	Deviation from thickness	belt	under 10 mm	± 1 mm							
			over 10 mm	± 10 %							
		rubber cover	under 4 mm	- 0.2 mm / + free							
			over 4 mm	- 5 % / +free							
	Length, m,			On customer's demand							
Characteristics of insertions	Insertions number			2 - 6							
	Type of insertion			EP 80	EP 100	EP 125	EP 160	EP 200	EP 250	EP 315	EP 400	EP 500
	Tensile strength, kgf, (for 50mm * 200mm)	longitudinal		500	700	800	1000	1200	1500	2000	2200	2800
		transversal		250	250	350	380	500	500	500	500	500
Adhesion, kgf/cm, min.	between plies			5							
	between insertions and rubber covers	under 1.5mm		3.5							
		over 1.5mm		4.5							
Edges	covered edges			For further protection, the edges are moulded entirely with rubber covers.							
	cut edges			The impregnated carcass is fully waterproof and impervious to ingress of liquids. Cut edges are not a threat to the belt's lifespan.							
Surfaces				-both surfaces covered -one surface covered and the other uncovered -both surfaces uncovered							
Breaking force of conveyor belt,(kgf/cm)				It is given by the type of thread and the number of insertions							

Convey or type	Standard	Temperature range	Resistance to oil	Carcass mixture composition	Cover mixture composition
ROS +S	**DIN 22102/1-91 GS ISO 433 S**	- 30….+ 100 °C	Excellent oil and grease resistant, antistatic and highly inflammable conveyor belts ,	NBR +SBR	NBR
ROS+K	**DIN 22102/1-91 GK ISO 433 K**	- 30….+ 100 °C	Excellent oil resistant conveyor belt with antistatic and heavily inflammable covers	NBR + SBR	NBR
G+S	**DIN 22102/1-91 GS ISO 433 S**	- 30….+ 80 °C	Good oil resistant, antistatic and heavily inflammable conveyor belts	SBR + NBR	NBR + SBR
G+K	**DIN 22102/1-91 GK ISO 433 K**	- 30….+ 80 °C	Good oil resistant conveyor belts with antistatic and flame resistant covers	SBR +NBR	NBR + SBR
GM + S	**DIN 22102/1-91 GS ISO 433 S**	- 30….+ 70 °C	Medium oil resistant , antistatic and heavily inflammable conveyor belts	SBR	NBR + SBR
GM + K	**DIN 22102/1-91 GK ISO 433 K**	- 30….+ 70 °C	Medium oil resistant conveyor belts with antistatic and flame resistant covers	SBR	NBR + SBR

section of textile insertion conveyor belt

The technical characteristics are given by the number of textile insertions and rubber mixture for covers.

Characteristics of rubber mixture for covers

*) 70 hr * 100 °C
**) 70 hr * 70 °C
Δ V - volume change;

Belt type			Tensile strength, min., (daN/cm^2)	Elongation at break, min. (%)	Abrasion loss, max., (mm^3)	Surface electrical resistance is in accordance with SR EN20284 (DIN 22104), Ω, max.	Fire resistant product in accordance with SR ISO 340 (DIN 22103) (flame resistance time after retirement of burner):		Resistance to oils	
Group	Type	Standards (ARTEGO)					number for each group of 6 test samples, (s), max.	for each tested sample, s), max.	ASTM # 1oil, Δ V, max, (%)	ASTM # 3 oil, Δ V, max, (%)
1.	ROS + S	Technical Card 835	150	350	200	3 x 10^8	45	15	± 10 *)	+ 20 *)
2.	ROS + K	Technical Card 828	150	350	200	3 x 10^8	45	15	± 10 *)	+ 20 *)
3.	G +S	Technical Card 597A	140	350	200	3 x 10^8	45	15	± 8 *)	+ 50 *)
4.	G + K	Technical Card 1558	140	350	200	3 x 10^8	45	15	± 10 *)	+ 50 *)
5.	GM +S	Technical Card1561	140	350	200	3 x 10^8	45	15	± 10 **)	+ 30 **)
6.	GM + K	Technical Card 664	140	350	200	3 x 10^8	45	15	± 10 **)	+ 50 **)

Heat resistant conveyor belts

Applications

There is a general rule that, when the temperature of the conveyed materials exceeds 60°C, it is more economical to employ a heat resistant conveyor belt. The conveyor belt may be damaged by heat, developing cracks or abrasion through the stiffening or softening of the rubber cover, thus leading to the separation of plies or that of the rubber and ply layers. Heat Resistant Conveyor Belts are employed to convey hot sintered ore, hot pellets, hot clinker, hot chemicals, fertilizers, hot cement and other high-temperature materials.

The carcass is made of polyamide / polyester (EP), polyester / polyester (EE), polyamide / polyamide (PP) fabrics.

Product characteristics

Dimensions	Width , mm.	covered edges		800 - 1600 ± 1%
		cut edges		500 - 1600 ± 1%
	Thickness of belt , mm			4 - 24
	Thickness of covers, mm			On customer's request
	Deviation from thickness	belt	under 10 mm	± 1 mm
			over 10 mm	± 10 %
		rubber cover	under 4 mm	- 0,2 mm / + free
			over 4 mm	- 5 %
	Length, m,			On customers request

Characteristics of insertions	Insertions number		2 - 6							
	Type of insertion		EP 80	EP 100	EP 125	EP 160	EP 200	EP 250	EP 315	EP 400	EP 500
	Tensile strength, kgf, (for 50mm x 200mm)	longitudinal	500	700	800	1000	1200	1500	2000	2200	2800
		transversal	250	250	350	380	500	500	500	500	500

Adhesion, kgf/cm, min.	between plies		5
	between insertions and rubber covers	under 1.5mm	3.5
		over 1.5mm	4.5
Edges	covered edges		For increased protection, the edges are moulded entirely with rubber covers.
	cut edges		The impregnated carcass is fully waterproof and impervious to the ingress of liquids. Therefore, cut edges are not a threat to belt life.
Surfaces			-both surfaces covered -one surface covered and the other uncovered
Breaking force of conveyor belt,(kgf/cm)			It is given by the type and number of insertions

Characteristics required for heat resistance of conveyor belts:

The mixture of rubber used for the cover faces features excellent heat and abrasion resistance and is recommended to protect conveyor belt from cracking and hardening on its surface due to heat exposure;

The specially dipped fabric is engineered to high standards; Rubber covers and the carcass should not damage themselves because of the heat;

Increased resistance on exposure to high temperatures.

Characteristics of rubber mixture for covers

Belt type			Tensile strength, min., (daN/cm^2)	Elongation at break, min., (%)	Hardness (°Sh A)	Abrasion loss, max, (mm³)	Resistance to accelerated aging						Working temperature range
							Decrease of tensile strength, (%)		Decrease of elongation, (%)		Hardness increase, (°Shore A)		
Group	Type	Standards (ARTEGO)					168h / 160° C	168h / 130° C	168h / 160° C	168h / 130° C	168h / 160° C	168h / 130°C	
1.	T2- heat resistant up to 130 °C	Technical Card 796	150	450	60±5	200	-	60	-	80	-	20	-30…130° C
2.	T3- heat resistant up to 150 °C	Technical Card 691	120	350	60 ±5	200	60	-	80	-	20	-	-30 ..+150°C

HEAT RESISTANT CONVEYOR BELTS FOR INDUSTRIAL USE WITH HIGH DURABILITY TO FIRE FOR USE IN TEMPERATURES EXCEEDING 60 DEGRESS celsius.

User guide information

The temperature of the material being conveyed and the surface temperature of the belts may vary depending on the type and shape of materials in operation. For example, the temperature of coal or that of sintered ore is 150°C, but these have a relatively small contact area with the surface of the belt. The temperature will oscillate somewhere between 60 - 80°C. On the contrary, when powdery materials (such as cements, aluminium, carbon black, etc) are conveyed, the temperature of the material and that of the conveyor belt do not differ much and, over time, the heat resistance properties of the belts may be greatly affected.

Materials carried	Lump size	Temperature of conveyed materials	Belt surface temperature
Sintered Ore	25 - 200mm	200°C - 400°C	130°C - 150°C
Return of Sintered Ore	< 10 mm	260°C	150°C - 190°C
Coke	100 - 200mm	70°C - 100°C	50°C - 60°C
Raw Material	< 30mm	180°C - 220°C	100°C - 120°C
Clinker	10 - 30mm	100°C - 220°C	100°C - 110°C
Cement	Power	100°C - 125°C	80°C - 90°C
Metal Powder	-	170°C	120°C - 130°C
Sand Moulding	-	200°C - 250°C	80°C - 90°C

Restrictions on the use of heat-resistant belts

1. Do not use SBR heat resistant belts when:
   - -The powdered material is over 70°C;
   - -A strong acid or alkaline is used;
   - -Oil products and oil-stained substances are used;
   - -The material-packaging operation requires the use of flame resistant belts;
2. Do not use EPR (EPDM) heat resistant belts when:
   - -The powdered material is over 180°C;
   - -Oil products and oil-stains (other than vegetable oils) are present;
   - -The location of the materials requires the use of flame resistant belts.

Food contact conveyor belt

Applications

Food contact rubber belts are specially engineered for conveying groceries and other general use products such as: fruits, vegetables, poultry, meats, fish, grains, nuts, candles, cereals, bread, tea, pharmaceuticals, etc. they also feature good abrasion levels and good weather resistance.

They are also used in a large variety of fields such as: sugar refineries, grain industries, canning factories, chocolate factories and bakeries; they are manufactured to meet the standards for food transportation (international standards for the transportation of food).

The carcass is made of polyamide / polyester (EP), polyester / polyester (EE), polyamide / polyamide (PP) fabrics.

Product characteristics

Dimensions	Width, mm.			500 - 1600 ± 1%						
	Thickness of belt , mm			4 - 24						
	Thickness of covers, mm			On customer's demand						
	Deviation from thickness	belt	under 10 mm	± 1 mm						
			over 10 mm	± 10 %						
		rubber cover	under4 mm	- 0.2 mm / +free						
			over 4 mm	- 5 % / + free						
	Length, m,			On customer's demand						
Characteristics of insertions	Insertions number			2 - 5						
	Types of insertion			EP 80	EP 100	EP 125	EP 160	EP 200	EP 250	EP 315	EP 400
	Tensile strength, kgf, (for 50mm * 200mm)	longitudinal		500	650	800	1000	1200	1500	2000	2200
		transversal		250	250	350	400	400	400	400	400
Adhesion, kgf/cm, min.	between plies			5						
	between insertions and rubber covers		under 1.5mm	3.5						
			over 1.5mm	4.5						
Edges				cut edges						
Surfaces				-both surfaces covered -one surface covered and the other uncovered						
Breaking force of conveyor belt,(kgf/cm)				It is given by the type and number of insertions						

The type of rubber from cover faces

Belt type			Tensile strength , min., (Kgf/cm^2)	Elongation at break, min., (%)	Abrasion loss, max., (mm^3)	Migration conditions (test conditions: for 10 minutes at 40° C)			Alternation aspects (test conditions: for 10 minutes at 40° C)		
Group	Type	Standards (ARTEGO)				distilled water (mg/dm^2)	ethanol 10% (mg/dm^2)	acetic acid , 3% (mg/dm^2)	distilled water (mg/dm^2)	ethanol 10% (mg/dm^2)	acetic acid , 3% (mg/dm^2)
1.	1	Technical Card 1408	120	450	250	‹ 10	‹ 10	‹ 50	No modification	No modification	No modification

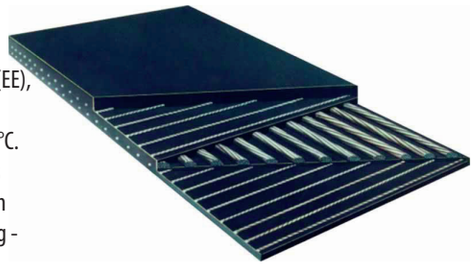
FOOD CONTACT CONVEYOR BELT

Conveying foods and other groceries in complete safety and with increased efficiency and speed

ARTEGO'S Food Contact CONVEYOR BELTS

General conveyor belts with breaker

Applications



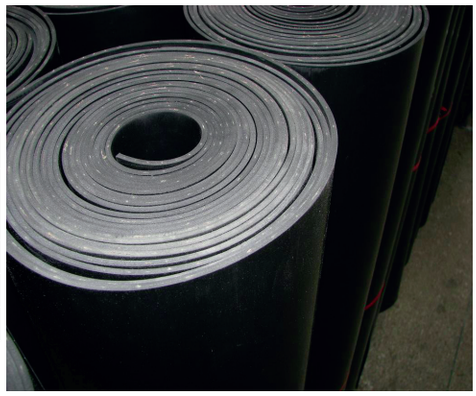
General conveyor belt with breaker which conveys unsorted lump materials under heavy-duty conditions with an improved resistance to impact fracture. The carcass is made from polyamide / polyester (EP), polyester / polyester (EE), polyamide / polyamide (PP) fabrics.
Textile insertion conveyor belts for general use with breaker can be used in temperatures ranging from -25 to +70°C. Breaker fabrics can be used either as protection ply in order to increase resistance to heating, ripping, impact, or as stiffening layers in order to increase lateral stiffness. For the first application - lateral belt strength increasing - high elongation steel cords BF 125 HR are used as weft cords. For the second application - lateral belt stiffness increasing - regular steel cords BF 125 RE are used as weft cords. Both breaker fabric types FLEXIMAT® can be used in textile or conventional Steel Cord belting. Either one or two plies can be applied above and underneath the reinforcing members. The rubber covers are manufactured according to DIN 22 102/1-91 standards or on customer's demand.

Product characteristics

Dimensions	Width, mm.			800 - 1600 ± 1%						
	Thickness of belt , mm			8 - 24						
	Thickness of covers, mm			On customer's demand						
	Deviation from thickness	belt	under 10 mm	± 1 mm						
			over 10 mm	± 10 %						
		rubber cover	under4 mm	- 0.2 mm / + free						
			over 4 mm	- 5 % / + free						
	Length, m,			On customer's demand						
Characteristics of insertions	Insertions number			2 - 4						
	Type of insertion			EP 80	EP 100	EP 125	EP 160	EP 200	EP 250	EP 315	EP 400
	Tensile strength, kgf, (for 50mm * 200mm)		longitudinal	500	700	800	1000	1200	1500	2000	2200
			transversal	250	250	350	380	500	500	500	500
Breaker characteristics	Type of breaker			BF 125 RE				BF 125 HE			
	Transverse strength range, N/mm			125				125			
	Mass, kg/m^2			0.55				0.75			
	Fabric thickness, mm			1.60				1.95			
	WARP YARNS			Nylon 940 * 2 * 2, RFL							
	Density, yarns/m			200				200			
	Warp strength, N/mm			50				50			
	WEFT CORDS			2 * 2 * 0.38				4 * 4 * 0.22			
	Diameter, mm			1.00				1.35			
	Breaking load		Average, N	1050				1220			
			Minimum, N	970				1150			
	Brass coating		% Cu	63.5							
			% Zn	36.5							
	Pitch, mm			7.5				8.9			
	Density, cord/m			133				112			
Adhesion, kgf/cm, min.	between plies			5							
	between insertions and rubber covers		under 1.5mm	3.5							
			over 1.5mm	4.5							
Edges				covered edges							
Surfaces				both surfaces covered							
Breaking force of conveyor belt,(kgf/cm)				Is given by the type and number of insertions							

Cover rubber grade

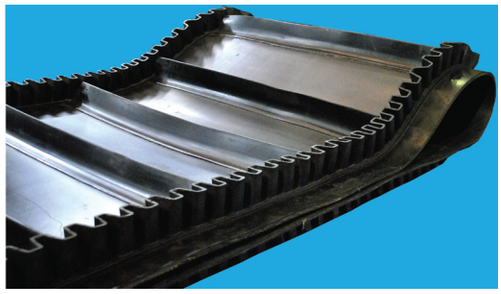
Cover grade			Tensile strength, min., (daN/cm^2)	Elongation at break, min., (%)	Abrasion loss, max., (mm^3)
group	type	norm			
1.	X	DIN 22102/1-91	250	450	120
2.	Y	DIN 22102 /1-91	200	400	150
3.	Z	DIN 22102/1-91	150	350	250



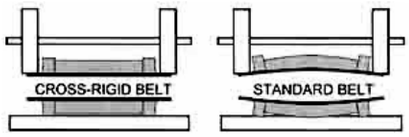
CROSS – STABILISED BASE CONVEYOR BELTS TYPE X(M)E + 2

Applications

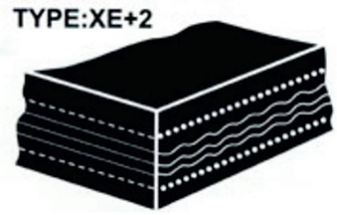
CORRUGATED SIDE WALLS CONVEYOR BELT BASED ON A CROSS-STABILIZED BASE CONVEYOR BELT X(M)E+2



The rolling belt face is designed to bend efficiently in a longitudinal direction and has greater rigidity in a transverse direction by utilizing reinforced fabrics with monofilament which creates a fabric carcass of high tension. X(M)E+2 is a multiple construction with cut edges based on a carcass of EP fabric or EE fabric and one monofilament ply, one on each side of the EP or EE carcasses, which are then integrated in the middle of the upper cover and the lower cover. It can be deflected from the horizontal position to an incline or vertical position and back again without bowing or sagging.
These deflection points as well as the belt returning on free lateral space by snub idlers definitely require the cross-rigidity of the base belt. The designed monofilament fabrics provide better return side-support to wear and tear of cleat and cover rubber with abrasion resistance.



Corrugated side walls conveyor belts based on a cross-stabilized base conveyor belt structure +sidewalls



Product characteristics

Dimensions	Width, mm.			500 - 1600 ± 1%					
	Thickness of belt , mm			8 - 24					
	Thickness of covers, mm			On customer's demand					
	Deviation from thickness	belt	under 10 mm	± 1 mm					
			over 10 mm	± 10 %					
		rubber cover	under4 mm	- 0.2 mm / +free					
			over 4 mm	- 5 % / + free					
	Length, m,			On customer's demand					
Characteristics of insertions									
	Insertions number			2 - 5					
	Type of insertion			EP 80	EP 100	EP 125	EP 160	EP 200	EP 250	EP 315	EP 400
	Tensile strength, kgf, (for 50mm * 200mm)	longitudinal		500	650	800	1000	1200	1500	2000	2200
		transversal		250	250	350	400	400	400	400	400

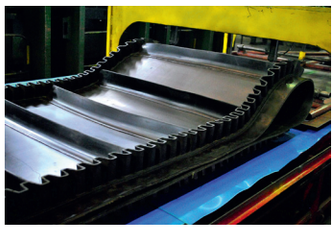
Monofilament thread*		Fabric EM80/06	Fabric E 125	Fabric E 160
	Material -warp -weft	polyester polyester	polyester polyester	polyester polyester
	Construction Fabric /dm -warp -weft	139 69	100 70	90 70
	Tensile strength, wrap **N/5cm**	4000	7000	9500
	Tensile strength, weft **N/5cm**	4500	4500	4500
	Elongation at break, , weft %	40	37	47
	Elongation at break, , wrap %	15	26	41
	Weight, dipped g/m^2	475	720	835
	thickness , mm	0.8	1	1,35

Adhesion, kgf/cm, min.	between plies		5
	between insertions and rubber covers	under 1.5mm	3.5
		over 1.5mm	4.5
Edges			cut edges
Surfaces			-the both surfaces covered -one surface covered and the other uncovered
Breaking force of conveyor belt,(kgf/cm)			It is given by the type and number of insertions

*Other monofilament fabrics on customer's demand (EM 100; EM125; EM100; EM200:EM250)

Characteristics of rubber mixture for covers

Belt grade			Tensile strength, min., (Kgf/cm^2)	Elongation at break, min., (%)	Abrasion loss, max., (mm^3)
Group	Type	Standard			
1.	W	DIN 22012/1-98	180	400	90
2.	X	DIN 22012/1-98	250	450	120
3.	Y	DIN 22012/1-98	200	400	150
4.	Z	DIN 22012/1-98	150	350	250



STEEL CORD CONVEYOR BELTS

Applications

Steel cord conveyor belts for general use convey loose and lumpy materials on heavy-duty conveyors over long distances under difficult conditions. These are used in all fields of activity involving a conveying line, such as mining industry, metallurgy, and electricity, wharf and building materials, small pieces of materials, lumps of materials and all variety of powders, working in temperatures ranging from -30 °C to +60 °C.
The carcass consists of high-strength steel cords placed in one plane. The rubber covers are manufactured according to DIN 22 131 (X, Y, Z, and W type) or to ISO 15236-2: 2004 or at customer's demand.

Product characteristics according to DIN 22131/1-88

Characteristics		Resistance class							
		ST 800	ST 1000	ST 1250	ST 1600	ST 2000	ST 2500	ST 3150	ST 4000
Breaking force of conveyor belt, N/mm width, min.		800	1000	1250	1600	2000	2500	3150	4000
Cord diameter, mm,		3,85 ±0,2	3,85 ±0,2	4,5 ± 0.2	5,85 ±0,3	5,85 ±0,3	7,0 ± 0,3	8,0 ± 0,3	9,0 ± 0,3
Cord spacing, mm		15 ± 1.5	12 ± 1.5	14 ± 1.5	15 ± 1.5	12 ± 1.5	15 ± 1.5	15 ± 1.5	15
Thickness of rubber covers, mm, min *)		4	4	4	4	4	5	5.5	6.5
Belt thickness **)	thickness, mm	On customer's demand							
	deviation from thickness	+10 % -0.5							
Length, m		On customer's demand							
Edges rubber width, mm, min.		15							
Breaking force of cord, kN, min.		13.2	13.2	19.2	26.4	26.4	41.2	52.0	66.0
Adhesion rubber/cord, N/mm, min		70	70	85	85	85	100	110	120
Width, mm		Number of cords							
width	deviation from width								
650	± 7	42	51	44	40	51	40	40	40
800	± 8	52	64	55	50	64	50	50	50
1000	±10	65	81	69	64	81	64	64	64
1200	±10	78	97	84	77	97	77	77	77
1400	±12	90	114	98	90	114	90	90	90
1600	±12	104	131	112	104	131	104	104	104
1800	±14	117	147	127	117	147	117	117	117
2000	± 14	130	164	141	130	164	130	130	130
Cord corrosion protection		Zinc or Brass							

*) Thickness of rubber covers is to be specified in the customer's order.
**) Belt thickness is calculated by adding the cord diameter and thickness of rubber covers.

*) For heavy inflammable conveyor belts built according to DIN 22103 (ISO 340 equivalent) standards;
they feature antistatic covers according to DIN 22104 (ISO 284) standards.
To protect against longitudinal tears, the steel cord conveyor belts (according to DIN 22131/1-88 or ISO 15236 standards) can be manufactured with one or two breakers situated under rubber covers. The breakers can be made of textile fabrics (EP) or special breakers with thin steel cords in transversal position.

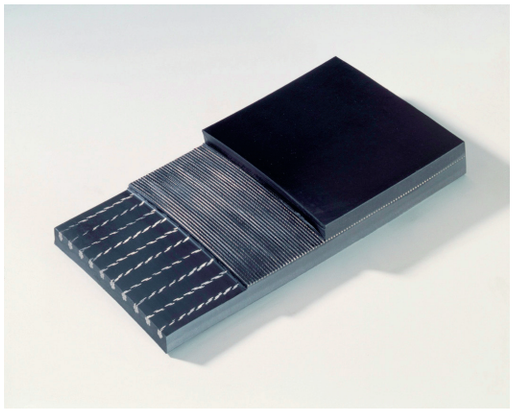
Cover rubber types according to SR EN ISO 15236-1: 2006 standards

Type of cover			Tensile strength, min., (daN/cm^2)	Elongation at break, min., (%)	Abrasion loss, max., (mm^3)
Group	Type	Standard			
1.	H	ISO 10247	240	450	120
2.	D	ISO 10247	180	400	100
3.	L	ISO 10247	150	350	200
4	K*	ISO 10247	150	350	200

Product characteristics according to EN ISO 15236-2: 2004

Characteristics		Resistance class										
		ST 500	ST 800	ST 1000	ST 1250	ST 1400	ST 1600	ST 2000	ST 2500	ST 3150	ST 3500	ST 4000
Breaking force of conveyor belt, N/mm width, min.		500	800	1000	1250	1400	1600	2000	2500	3150	3500	4000
Cord diameter, mm,		3,0 ±0,2	3,7 ±0,2	4,2 ± 0.2	4,9 ±0,3	5.0± 0.3	5,6 ±0,3	5,6 ± 0,3	7,2 ± 0,3	8,1 ±0,3	8,6± 0,3	8,9 ±0,3
Cord spacing, mm		14 ± 1.5	12 ± 1.5	12 ± 1.5	14 ± 1.5	14 ± 1.5	15 ± 1.5	12 ± 1.5	15 ±1.5	15±1 .5	15±1 .5	15±1 .5
Thickness of rubber covers, mm, min *)		4	4	4	4	4	4	4	5	5.5	6.0	6.5
Belt thickness **)	thickness, mm	On customer's demand										
	deviation from thickness	+10 % -0.5										
Length, m		On customer's demand										
Edges rubber width, mm, min.		15										
Breaking force of cord, kN, min.		7.6	10.3	12.9	18.4	20.6	26.2	25.5	39.7	50.0	55.5	63.5
Adhesion rubber/cord, N/mm, min		70	70	85	85	85	85	85	110	110	110	120
Width, mm		Number of cords										
width	deviation from width											
650	+10/-7	44	51	51	45	45	41	52	41	41	41	41
800	+10/-8	54	64	63	55	55	50	64	51	51	51	51
1000	± 10	68	80	80	68	68	63	80	63	63	64	63
1200	± 10	86	97	97	82	82	76	96	76	76	76	76
1400	±12	96	114	113	97	97	90	112	89	89	89	89
1600	±12	111	130	130	111	111	103	129	102	102	102	102
1800	±14	125	147	147	125	125	116	145	116	116	116	116
2000	± 14	139	164	163	140	139	130	162	129	129	129	129
Cord corrosion protection		Zinc or Brass										

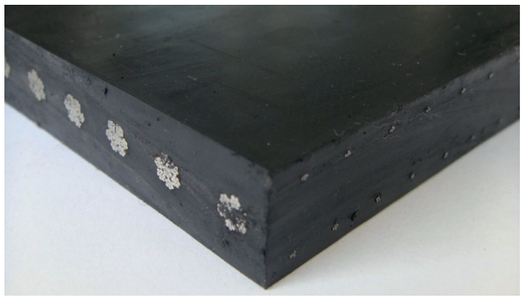
*) Thickness of rubber covers is to be specified in the customer's order.
**) Belt thickness is calculated by adding the cord diameter and thickness of rubber covers.



Cover rubber grade according to DIN 22131/1-88

*) For heavy inflammable conveyor belts built according to DIN 22103 (ISO 340 equivalent) standards, featuring antistatic covers according to DIN 22104 (ISO 284) standards.

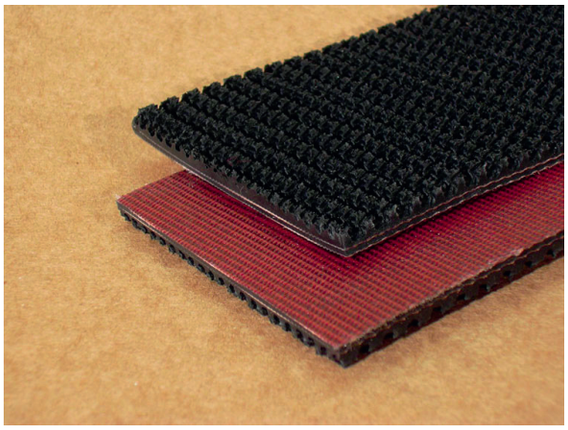
Type of cover			Tensile strength, min., (daN/cm^2)	Elongation at break, min., (%)	Abrasion loss, max., (mm^3)	Use
group	type	Standard				
1.	W	DIN 22131-88	180	400	90	These types of rubber covers have characteristics that provide a very high level of abrasion and cut-and-gouge resistance as well as good weather resistance.
2.	X	DIN 22131-88	250	450	120	
3.	Y	DIN 22131 -88	200	400	150	These types of rubber covers are widely used for general conveyor belts; they have superior resistance to abrasion, weather, and cutting.
4	K *	DIN 22131 -88	200	400	200	Flame resistant steel cord conveyor belts are specially designed and engineered to convey loose and bulky materials in explosion-hazardous locations; they are used for aboveground mining applications that require fire resistance.



Rough top conveyor belts

Applications

This refers to conveyor belts which have a certain pattern imprinted in relief on the upper surface. This is achieved by contact with a special thread that acts like a mold. Rough top conveyor belts have been designed for transporting fragile or easily deformable goods such as: glass, paper bags, cardboard boxes etc. and can be used at angles ranging from 30 to 35 degrees, depending on the goods to be carried, in temperatures ranging from -30 to +70°C. The antislip surface is ideal for steep inclined/declined applications.
The carcass is made of polyamide / polyester (EP), polyester / polyester (EE), polyamide / polyamide (PP) fabrics.



Product characteristics

Dimensions	Width, mm.			800 – 1600 ± 1%				
				500 – 1600 ± 1%				
	Thickness of belt , mm			6 - 12				
	Thickness of covers, mm			On customer's demand				
	Deviation from thickness	belt	under 10 mm	± 1 mm				
			over 10 mm	± 10 %				
		rubber cover *)	under4 mm	- 0.2 mm / +free				
			over 4 mm	- 5 % / + free				
	Length, m,			On customer's demand				
Characteristics of insertions	Insertions number			2-4				
	Type of insertion			EP 80	EP 100	EP 125	EP 160	EP 200	EP 250
	Tensile strength, kgf, (for 50mm * 200mm)		longitudinal	500	800	800	1000	1200	1500
			transversal	250	350	350	400	400	400
Adhesion, kgf/cm, min.	between plies			5				
	between insertions and rubber covers			4.5				
Edges				cut edges				
Surfaces				-one surface covered (rough top imprinted) and the other surface uncovered - both surfaces covered and one rough top imprinted surface				
Special features	▪ -Cushioning effect absorbs vibration and reduces slippage ▪ -Low friction coefficient with uncovered bottom surface. ▪ -One ply or three plies of synthetic fabrics provide high strength and flexibility.							
Breaking force of conveyor belt,(kgf/cm)				It is given by the type and number of insertions				

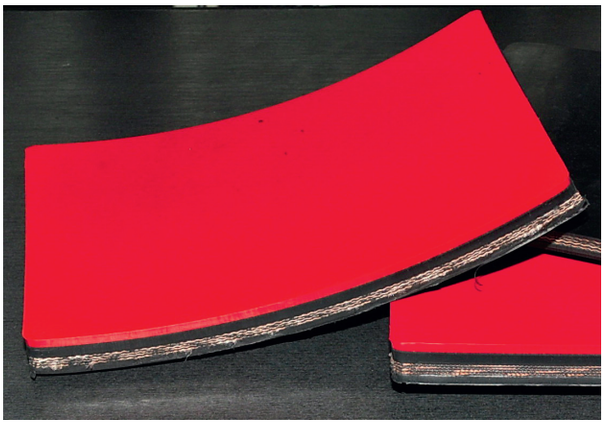
*) The thickness of the top cover (with this type of rough face) will be a minimum of 3 mm.

Characteristics of rubber mixture for covers

Belt type			Tensile strength, min., (Kgf/cm^2)	Elongation at break, min., (%)	Abrasion loss, max., (mm^3)
Group	Type	Standards (ARTEGO)			
1.	1	Technical Card 1763	120	350	250
2.	2	Technical Card 1763	150	350	200
3.	3	Technical Card 1763	200	400	150

On customer's demand, we will supply the customer with all desired characteristics.

Textile insertion conveyor belts with one thermoplastic polyurethane (TPU) cover



Applications

The thermoplastic polyurethane (TPU) is an excellent solution for the protection of conveyor belts surface against premature abrasion. The usage of these belts in mining industry all over the world has proven TPU superior properties over other materials. When compared to other standard rubber materials, TPU wear protection linings increase the lifespan of the products up to 20 times than if simple rubber were to be used.

The conveyor belt will receive the best characteristics of TPU: excellent abrasion resistance, flexibility over a wide temperature range, high elasticity over the total hardness range, good resistance to oils, greases and many solvents, good resistance to all weather phenomena while eliminating the need for plasticizers. It also has good resistance and protection against high energy radiation and good resistance and protection against microbial attacks.

"Desmopan" is the trade name for TPU produced by Bayer Material Science AG.

Conveyor belts with one TPU cover are used in temperatures ranging from – 30 to +70°C.

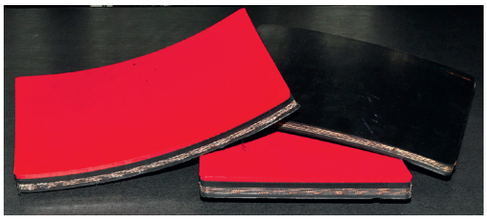
The rubber covers are manufactured according to DIN 22 102/1-91 standards or on customer's demand.

Product characteristics

Dimensions	Width, mm.			800 - 1300 ± 1%						
	Thickness of belt , mm			7 - 24						
	Thickness of covers, mm			On customer's demand						
	Deviation from thickness	belt	under 10 mm	± 1 mm						
			over 10 mm	± 10 %						
		rubber cover	under4 mm	- 0.2 mm / + free						
			over 4 mm	- 5 % / + free						
	Length, m,			On customer's demand						
Characteristics of insertions	Insertions number			2 - 5						
	Type of insertion			EP 80	EP 100	EP 125	EP 160	EP 200	EP 250	EP 315	EP 400
	Tensile strength, kgf, (for 50mm * 200mm)		longitudinal	500	700	800	1000	1200	1500	2000	2200
			transversal	250	250	350	380	500	500	500	500
Mechanical properties of TPU	Type			Desmopan 385 E/S						
	Characteristics			***Standard of methods***				***Values***		
	Shore Hardeners, method A			ISO 868				85		
	Tensile strength, MPA			DIN 53504				51		
	Stain at break, %			DIN 53504				425		
	Compression set 72h ; 23 °C,%			ISO 815				25		
	Impact resilience,%			ISO 4662				42		
	Tear propagation resistance, KN/m			ISO 34-1				70		
	Density,kg/m^3			ISO 1183				1200		
	Abrasion resistance, mm^3, max.			ISO 4649				30		
Adhesion, kgf/cm, min.	between plies			5						
	between insertions and rubber covers		under 1.5mm	3.5						
			over 1.5mm	4.5						
Edges				covered edges						
Surfaces				-both surfaces covered						
Breaking force of conveyor belt,(kgf/cm)				It is given by the type and number of insertions						

Cover rubber grade

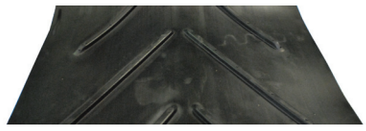
Cover grade			Tensile strength, min., (daN/cm^2)	Elongation at break, min., (%)	Abrasion loss, max., (mm^3)
Group	Type	Standard			
1.	X	DIN 22102/1-91	250	450	120
2.	Y	DIN 22102 /1-91	200	400	150
3.	Z	DIN 22102/1-91	150	350	250



Chevron conveyor belt

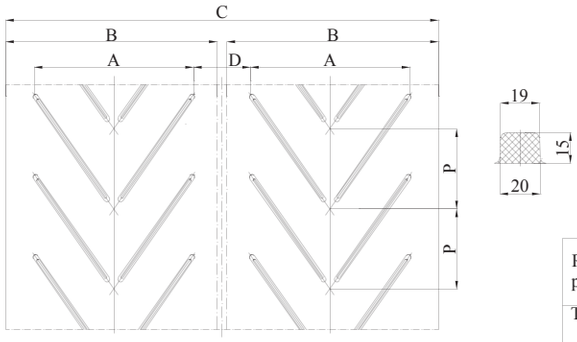
Applications

Chevron conveyor belts are used to convey wet and/or loose materials (coal and mineral core, powdery materials such as sand, fine coal and grain materials) on steep inclines. The Chevron cleats prevent or reduce the sliding effect and increase the amount of product conveyed. It can carry loose materials at angles of 17~18° and bagged materials at 30~50°. Cleats and top cover rubber are monoblock moulding for high strength and adhesion; they are recommended for general usage; they are also heat resistant or have all the other characteristics that flat belts have. This type of belt can be used in temperatures ranging from -30 to +70°C. The carcass is made of polyamide / polyester (EP), polyester / polyester (EE), polyamide / polyamide (PP) fabrics.



Product characteristics

CHEVRON R15



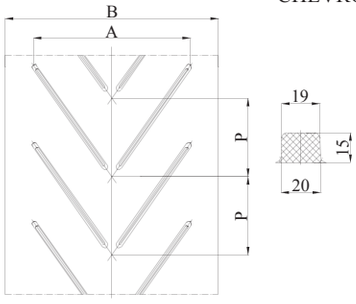
Type	C [mm]	B [mm]	A [mm]	P [mm]	D [mm]
Chevron R15/287	1000 - 1600	400	287	145	413
Chevron R15/287	1000 - 1600	450	287	145	413
Chevron R15/287	1000 - 1600	500	287	145	413
Chevron R15/436	1200 - 1600	500	436	218	424;364;264
Chevron R15/436	1200 - 1600	550	436	218	424;364;264
Chevron R15/436	1200 - 1600	600	436	218	424;364;264
Chevron R15/436	1200 - 1600	650	436	218	424;364;264
Chevron R15/436	1200 - 1600	700	436	218	424;364;264
Chevron R15/436	1200 - 1600	750	436	218	424;364
Chevron R15/436	1200 - 1600	800	436	218	424;364
Chevron R15/585	1400 - 1600	650	585	295	215
Chevron R15/585	1400 - 1600	700	585	295	215
Chevron R15/585	1400 - 1600	750	585	295	215
Chevron R15/585	1400 - 1600	800	585	295	215

Rubber mixture, properties for covers	General use				Resistance to temperature		Resistance to oil		
	w	x	y	z	T2	T3	MOR	G	ROS
Tensile strength, daN/cm2, min	180	250	200	150	150	120	150	140	150
Elongation at break, ⁄, min	400	450	400	70	450	350	350	350	350
Abrasion resistance (volume of wear), mm3, max	90	120	150	250	150	200	200	200	150
Resistant to oil	No	No	No	No	No	No	Medium	Good	Very good
Working temperature, °C [max]	70	70	70	70	120	150	70	80	100

Characteristics of insertions

Type of insertions	EP 80	EP 100	EP 125	EP 160
Insertions number	2 - 4			
Tensile strength, Kgf/cm, min	160 - 240	200 - 400	250 - 500	315 - 630
Width [mm]	1000 - 1600			
Thickness [mm]	4 - 12	6 - 12	6 - 12	6 - 12

CHEVRON R15



Type	B [mm]	A [mm]	P [mm]
Chevron R15/287	400	287	145
Chevron R15/287	450	287	145
Chevron R15/287	500	287	145
Chevron R15/436	500	436	218
Chevron R15/436	550	436	218
Chevron R15/436	600	436	218
Chevron R15/436	650	436	218
Chevron R15/436	700	436	218
Chevron R15/436	750	436	218
Chevron R15/436	800	436	218
Chevron R15/585	650	585	295
Chevron R15/585	700	585	295
Chevron R15/585	750	585	295
Chevron R15/585	800	585	295

Rubber mixture, properties for covers	General use				Resistance to temperature		Resistance to oil		
	w	x	y	z	T2	T3	MOR	G	ROS
Tensile strength, daN/cm2, min	180	250	200	150	150	120	150	140	150
Elongation at break, ⁄, min	400	450	400	70	450	350	350	350	350
Abrasion resistance (volume of wear), mm3, max	90	120	150	250	150	200	200	200	150
Resistant to oil	No	No	No	No	No	No	Medium	Good	Very good
Working temperature, °C [max]	70	70	70	70	120	150	70	80	100

Characteristics of insertions

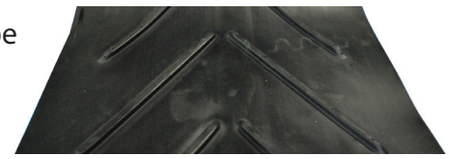
Type of insertions	EP 80	EP 100	EP 125	EP 160
Insertions number	2 - 4			
Tensile strength, Kgf/cm, min	160 - 240	200 - 400	250 - 500	315 - 630
Width [mm]	400 - 800			
Thickness [mm]	4 - 12	6 - 12	6 - 12	6 - 12

CHEVRON BELTS

Chevron conveyor belt

Applications

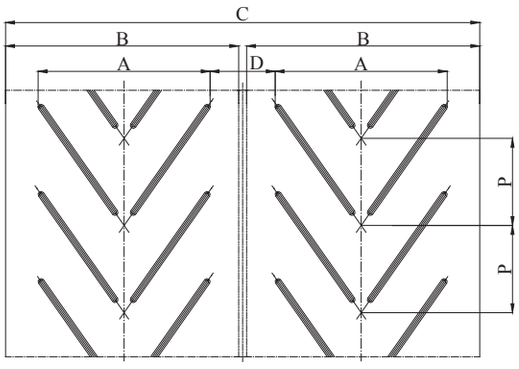
For gradient angles of more than 20°, bulk and general goods cannot be transported using ordinary conveyor belts. Chevron conveyor belts are used instead.



Product characteristics

CHEVRON R15

CHEVRON BELTS



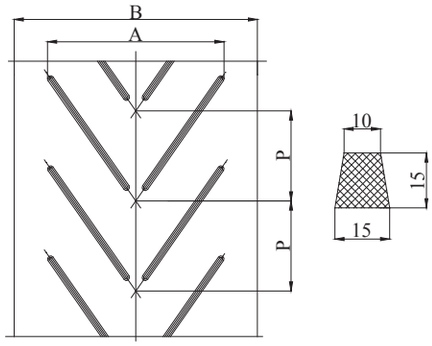
Type	C [mm]	B [mm]	A [mm]	P [mm]	D [mm]
Chevron R15/385	1200-1600	400	385	254	415
Chevron R15/385	1200-1600	450	385	254	415
Chevron R15/385	1200-1600	500	385	254	415
Chevron R15/385	1200-1600	550	385	254	415
Chevron R15/385	1200-1600	600	385	254	415
Chevron R15/385	1200-1600	650	385	254	415
Chevron R15/385	1200-1600	700	385	254	415
Chevron R15/385	1200-1600	750	385	254	415
Chevron R15/385	1200-1600	800	385	254	415

Rubber mixture, properties for covers	General use				Resistance to temperature		Resistance to oil		
	w	x	y	z	T2	T3	MOR	G	ROS
Tensile strength, daN/cm2, min	180	250	200	150	150	120	150	140	150
Elongation at break, %, min	400	450	400	70	450	350	350	350	350
Abrasion resistance (volume of wear), mm3, max	90	120	150	250	150	200	200	200	150
Resistant to oil	No	No	No	No	No	No	Medium	Good	Very good
Working temperature, °C [max]	70	70	70	70	120	150	70	80	100

Characteristics of insertions

Type of insertions	EP 80	EP 100	EP 125	EP 160
Insertions number	2 - 4			
Tensile strength, Kgf/cm, min	160 - 240	200 - 400	250 - 500	315 - 630
Width [mm]	1200 - 1600			
Thickness [mm]	4 - 12	6 - 12	6 - 12	6 - 12

CHEVRON R15



Type	B [mm]	A [mm]	P [mm]
Chevron R15/385	400	385	254
Chevron R15/385	450	385	254
Chevron R15/385	500	385	254
Chevron R15/385	550	385	254
Chevron R15/385	600	385	254
Chevron R15/385	650	385	254
Chevron R15/385	700	385	254
Chevron R15/385	750	385	254
Chevron R15/385	800	385	254

Rubber mixture, properties for covers	General use				Resistance to temperature		Resistance to oil		
	w	x	y	z	T2	T3	MOR	G	ROS
Tensile strength, daN/cm2, min	180	250	200	150	150	120	150	140	150
Elongation at break, %, min	400	450	400	70	450	350	350	350	350
Abrasion resistance (volume of wear), mm3, max	90	120	150	250	150	200	200	200	150
Resistant to oil	No	No	No	No	No	No	Medium	Good	Very good
Working temperature, °C [max]	70	70	70	70	120	150	70	80	100

Characteristics of insertions

Type of insertions	EP 80	EP 100	EP 125	EP 160
Insertions number	2 - 4			
Tensile strength, Kgf/cm, min	160 - 240	200 - 400	250 - 500	315 - 630
Width [mm]	400 - 800			
Thickness [mm]	4 - 12	6 - 12	6 - 12	6 - 12

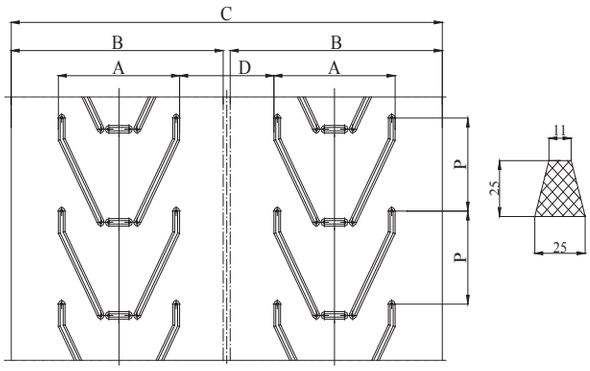
Chevron conveyor belt

Applications

Chevron belting is used to convey materials at angles that are so steep that load slips or falls back. The special profiles on such belts make increased angles of inclination possible compared with smooth surface belts.

Product characteristics

CHEVRON R25



Type	C [mm]	B [mm]	A [mm]	P [mm]	D [mm]
Chevron R25/450	1250-1600	500	450	312,5	350
Chevron R25/450	1250-1600	550	450	312,5	350
Chevron R25/450	1250-1600	600	450	312,5	350
Chevron R25/450	1250-1600	650	450	312,5	350
Chevron R25/450	1250-1600	700	450	312,5	350
Chevron R25/450	1250-1600	750	450	312,5	350
Chevron R25/450	1250-1600	800	450	312,5	350

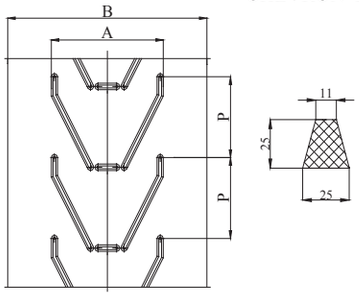
CHEVRON BELTS

Rubber mixture, properties for covers	General use				Resistance to temperature		Resistance to oil		
	w	x	y	z	T2	T3	MOR	G	ROS
Tensile strength, daN/cm2, min	180	250	200	150	150	120	150	140	150
Elongation at break, %, min	400	450	400	70	450	350	350	350	350
Abrasion resistance (volume of wear), mm3, max	90	120	150	250	150	200	200	200	150
Resistant to oil	No	No	No	No	No	No	Medium	Good	Very good
Working temperature, °C [max]	70	70	70	70	120	150	70	80	100

Characteristics of insertions

Type of insertions	EP 80	EP 100	EP 125	EP 160
Insertions number	2 - 4			
Tensile strength, Kgf/cm, min	160 - 240	200 - 400	250 - 500	315 - 630
Width [mm]	1250 - 1600			
Thickness [mm]	4 - 12	6 - 12	6 - 12	6 - 12

CHEVRON R25



Type	B [mm]	A [mm]	P [mm]
Chevron R25/450	500	450	312,5
Chevron R25/450	550	450	312,5
Chevron R25/450	600	450	312,5
Chevron R25/450	650	450	312,5
Chevron R25/450	700	450	312,5
Chevron R25/450	750	450	312,5
Chevron R25/450	800	450	312,5
Chevron R25/750	800	750	451
Chevron R25/750	850	750	451
Chevron R25/750	900	750	451
Chevron R25/750	950	750	451
Chevron R25/750	1000	750	451
Chevron R25/750	1050	750	451
Chevron R25/750	1100	750	451
Chevron R25/750	1150	750	451
Chevron R25/750	1200	750	451
Chevron R25/750	1250	750	451
Chevron R25/750	1300	750	451
Chevron R25/750	1350	750	451
Chevron R25/750	1400	750	451
Chevron R25/750	1450	750	451
Chevron R25/750	1500	750	451
Chevron R25/750	1550	750	451
Chevron R25/750	1600	750	451

Rubber mixture, properties for covers	General use				Resistance to temperature		Resistance to oil		
	w	x	y	z	T2	T3	MOR	G	ROS
Tensile strength, daN/cm2, min	180	250	200	150	150	120	150	140	150
Elongation at break, %, min	400	450	400	70	450	350	350	350	350
Abrasion resistance (volume of wear), mm3, max	90	120	150	250	150	200	200	200	150
Resistant to oil	No	No	No	No	No	No	Medium	Good	Very good
Working temperature, °C [max]	70	70	70	70	120	150	70	80	100

Characteristics of insertions

Type of insertions	EP 80	EP 100	EP 125	EP 160
Insertions number	2 - 4			
Tensile strength, Kgf/cm, min	160 - 240	200 - 400	250 - 500	315 - 630
Width [mm]	500 - 1600			
Thickness [mm]	4 - 12	6 - 12	6 - 12	6 - 12

Chevron conveyor belt

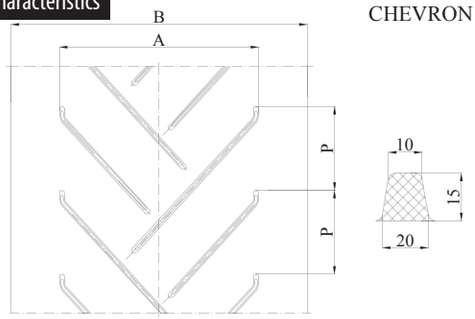
Applications

Chevron conveyor belts are used primarily when the angle of incline becomes too steep for a smooth conventional conveyor belt. The belt is fitted with integrally moulded cleats which prevent the material from sliding backwards as would be the case with a smooth surface belt. Different cleat designs allow the carrying of many types of material, from bulk solids to unit loads.

CHEVRON BELTS

Product characteristics

CHEVRON R15

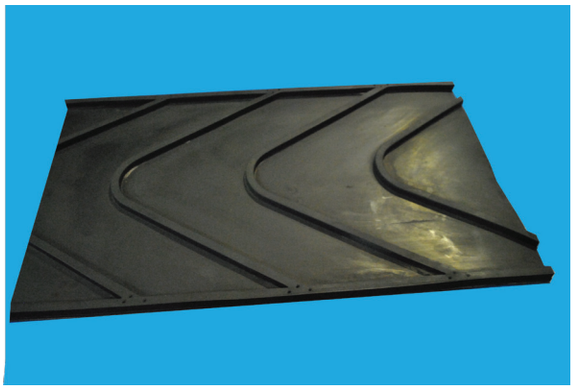


Type	B [mm]	A [mm]	P [mm]
Chevron R15/750	800	750	317
Chevron R15/750	850	750	317
Chevron R15/750	900	750	317
Chevron R15/750	950	750	317
Chevron R15/750	1000	750	317
Chevron R15/750	1050	750	317
Chevron R15/750	1100	750	317
Chevron R15/750	1150	750	317
Chevron R15/750	1200	750	317
Chevron R15/750	1250	750	317
Chevron R15/750	1300	750	317
Chevron R15/750	1350	750	317
Chevron R15/750	1400	750	317
Chevron R15/750	1450	750	317
Chevron R15/750	1500	750	317
Chevron R15/750	1550	750	317
Chevron R15/750	1600	750	317

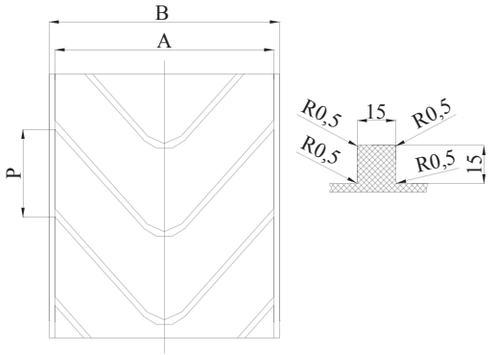
Rubber mixture, properties for covers	General use				Resistance to temperature		Resistance to oil		
	w	x	y	z	T2	T3	MOR	G	ROS
Tensile strength, daN/cm2, min	180	250	200	150	150	120	150	140	150
Elongation at break, ⁄, min	400	450	400	70	450	350	350	350	350
Abrasion resistance (volume of wear), mm3, max	90	120	150	250	150	200	200	200	150
Resistant to oil	No	No	No	No	No	No	Medium	Good	Very good
Working temperature, °C [max]	70	70	70	70	120	150	70	80	100

Characteristics of insertions

Type of insertions	EP 80	EP 100	EP 125	EP 160
Insertions number	2 - 4			
Tensile strength, Kgf/cm, min	160 - 240	200 - 400	250 - 500	315 - 630
Width [mm]	800 - 1600			
Thickness [mm]	4 - 12	6 - 12	6 - 12	6 - 12



CHEVRON R15



Rubber mixture, properties for covers	General use				Resistance to temperature		Resistance to oil		
	w	x	y	z	T2	T3	MOR	G	ROS
Tensile strength, daN/cm2, min	180	250	200	150	150	120	150	140	150
Elongation at break, ⁄, min	400	450	400	70	450	350	350	350	350
Abrasion resistance (volume of wear), mm3, max	90	120	150	250	150	200	200	200	150
Resistant to oil	No	No	No	No	No	No	Medium	Good	Very good
Working temperature, °C [max]	70	70	70	70	120	150	70	80	100

Type	B [mm]	A [mm]	P [mm]
Chevron R15/500	500	470	230
Chevron R15/600	600	570	230
Chevron R15/800	800	770	300

Characteristics of insertions

Type of insertions	EP 80	EP 100	EP 125	EP 160
Insertions number	2 - 4			
Tensile strength, Kgf/cm, min	160 - 240	200 - 400	250 - 500	315 - 630
Width [mm]	500 - 800			
Thickness [mm]	4 - 12	6 - 12	6 - 12	6 - 12

Chevron conveyor belt

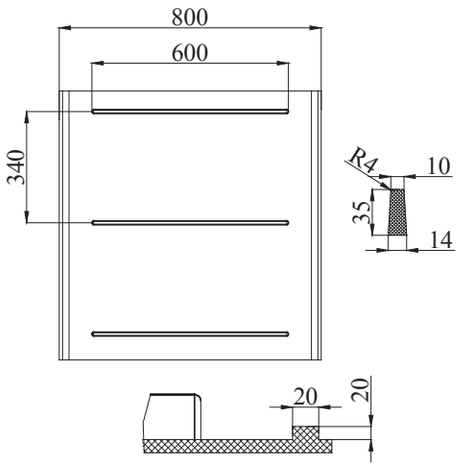
Applications

This type of belt can be used in temperatures ranging from -30 to +70°C.
The carcass is made of polyamide / polyester (EP), polyester / polyester (EE), polyamide / polyamide (PP) fabrics.

CHEVRON BELTS

Product characteristics

CHEVRON T-35/G20

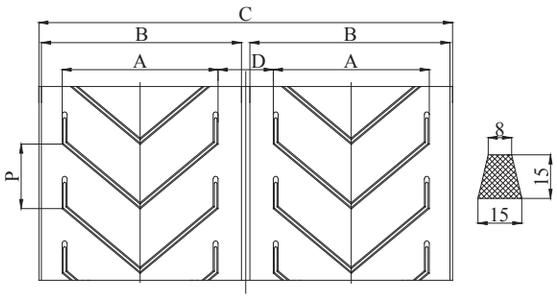


Rubber mixture, properties for covers	General use				Resistance to temperature		Resistance to oil		
	w	x	y	z	T2	T3	MOR	G	ROS
Tensile strength, daN/cm2, min	180	250	200	150	150	120	150	140	150
Elongation at break, %, min	400	450	400	70	450	350	350	350	350
Abrasion resistance (volume of wear), mm3, max	90	120	150	250	150	200	200	200	150
Resistant to oil	No	No	No	No	No	No	Medium	Good	Very good
Working temperature, °C [max]	70	70	70	70	120	150	70	80	100

Characteristics of insertions

Type of insertions	EP 80	EP 100	EP 125	EP 160
Insertions number	2 - 4			
Tensile strength, Kgf/cm, min	160 - 240	200 - 400	250 - 500	315 - 630
Width [mm]	800			
Thickness [mm]	4 - 12	6 - 12	6 - 12	6 - 12

CHEVRON R15



Type	C [mm]	B [mm]	A [mm]	P [mm]	D [mm]
Chevron R15/480	1200-1600	500	480	200	170
Chevron R15/480	1200-1600	550	480	200	170
Chevron R15/480	1200-1600	600	480	200	170
Chevron R15/480	1200-1600	650	480	200	170
Chevron R15/650	1500-1600	700	650	200	150
Chevron R15/650	1500-1600	750	650	200	150
Chevron R15/650	1500-1600	800	650	200	150

Rubber mixture, properties for covers	General use				Resistance to temperature		Resistance to oil		
	w	x	y	z	T2	T3	MOR	G	ROS
Tensile strength, daN/cm2, min	180	250	200	150	150	120	150	140	150
Elongation at break, %, min	400	450	400	70	450	350	350	350	350
Abrasion resistance (volume of wear), mm3, max	90	120	150	250	150	200	200	200	150
Resistant to oil	No	No	No	No	No	No	Medium	Good	Very good
Working temperature, °C [max]	70	70	70	70	120	150	70	80	100

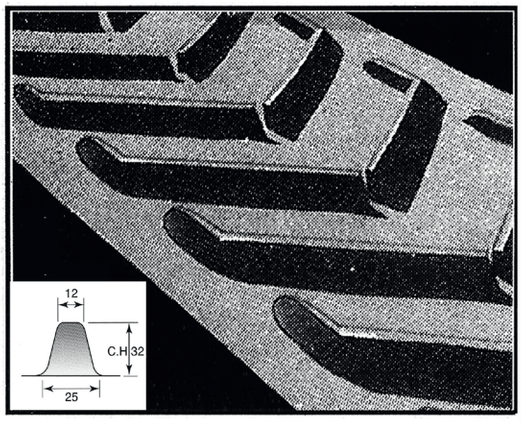
Characteristics of insertions

Type of insertions	EP 80	EP 100	EP 125	EP 160
Insertions number	2 - 4			
Tensile strength, Kgf/cm, min	160 - 240	200 - 400	250 - 500	315 - 630
Width [mm]	1200 - 1600			
Thickness [mm]	4 - 12	6 - 12	6 - 12	6 - 12

Chevron conveyor belt

Applications

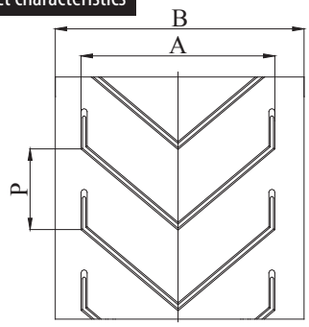
The special design of the cleats makes it much easier to convey loose materials up steep slopes and also makes conveying these materials more efficient.

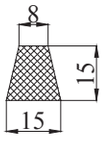


CHEVRON BELTS

Product characteristics

CHEVRON R15





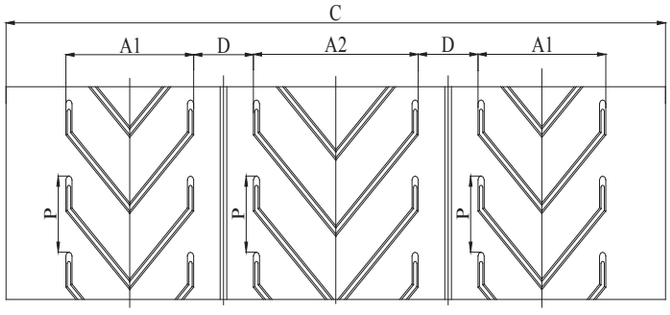
Rubber mixture, properties for covers	General use				Resistance to temperature		Resistance to oil		
	w	x	y	z	T2	T3	MOR	G	ROS
Tensile strength, daN/cm2, min	180	250	200	150	150	120	150	140	150
Elongation at break, %, min	400	450	400	70	450	350	350	350	350
Abrasion resistance (volume of wear), mm3, max	90	120	150	250	150	200	200	200	150
Resistant to oil	No	No	No	No	No	No	Medium	Good	Very good
Working temperature, °C [max]	70	70	70	70	120	150	70	80	100

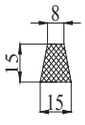
Type	B [mm]	A [mm]	P [mm]
Chevron R15/480	500	480	200
Chevron R15/480	550	480	200
Chevron R15/480	600	480	200
Chevron R15/480	650	480	200
Chevron R15/650	700	650	200
Chevron R15/650	750	650	200
Chevron R15/650	800	650	200

Characteristics of insertions

Type of insertions	EP 80	EP 100	EP 125	EP 160
Insertions number	2 - 4			
Tensile strength, Kgf/cm, min	160 - 240	200 - 400	250 - 500	315 - 630
Width [mm]	500 - 800			
Thickness [mm]	4 - 12	6 - 12	6 - 12	6 - 12

CHEVRON R15





Type	C [mm]	A1 [mm]	A2 [mm]	P [mm]	D [mm]
Chevron R15/310	1350-1600	310	400	150	145

Rubber mixture, properties for covers	General use				Resistance to temperature		Resistance to oil		
	w	x	y	z	T2	T3	MOR	G	ROS
Tensile strength, daN/cm2, min	180	250	200	150	150	120	150	140	150
Elongation at break, %, min	400	450	400	70	450	350	350	350	350
Abrasion resistance (volume of wear), mm3, max	90	120	150	250	150	200	200	200	150
Resistant to oil	No	No	No	No	No	No	Medium	Good	Very good
Working temperature, °C [max]	70	70	70	70	120	150	70	80	100

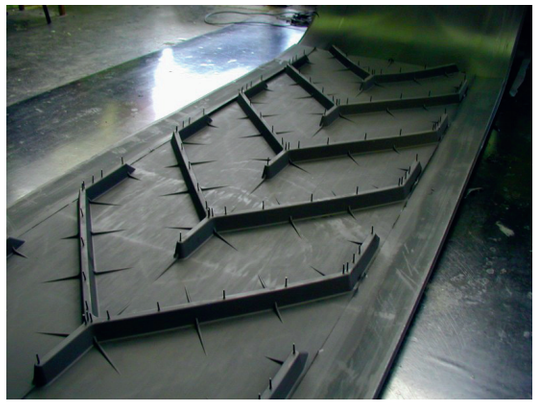
Characteristics of insertions

Type of insertions	EP 80	EP 100	EP 125	EP 160
Insertions number	2 - 4			
Tensile strength, Kgf/cm, min	160 - 240	200 - 400	250 - 500	315 - 630
Width [mm]	1350 - 1600			
Thickness [mm]	4 - 12	6 - 12	6 - 12	6 - 12

Chevron conveyor belt

Applications

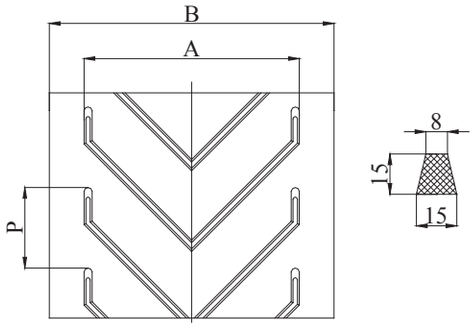
MOR and ROS type chevron belts. They are also temperature resistant.



CHEVRON BELTS

Product characteristics

CHEVRON R15



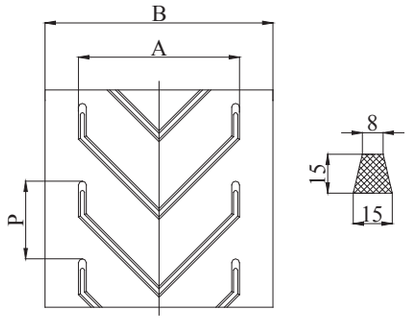
Type	B [mm]	A [mm]	P [mm]
Chevron R15/400	450	400	150
Chevron R15/400	500	400	150

Rubber mixture, properties for covers	General use				Resistance to temperature		Resistance to oil		
	w	x	y	z	T2	T3	MOR	G	ROS
Tensile strength, daN/cm2, min	180	250	200	150	150	120	150	140	150
Elongation at break, %, min	400	450	400	70	450	350	350	350	350
Abrasion resistance (volume of wear), mm3, max	90	120	150	250	150	200	200	200	150
Resistant to oil	No	No	No	No	No	No	Medium	Good	Very good
Working temperature, °C [max]	70	70	70	70	120	150	70	80	100

Characteristics of insertions

Type of insertions	EP 80	EP 100	EP 125	EP 160
Insertions number	2 - 4			
Tensile strength, Kgf/cm, min	160 - 240	200 - 400	250 - 500	315 - 630
Width [mm]	450 - 500			
Thickness [mm]	4 - 12	6 - 12	6 - 12	6 - 12

CHEVRON R15



Type	B [mm]	A [mm]	P [mm]
Chevron R15/310	350	310	150
Chevron R15/310	400	310	150
Chevron R15/310	450	310	150
Chevron R15/310	500	310	150

Rubber mixture, properties for covers	General use				Resistance to temperature		Resistance to oil		
	w	x	y	z	T2	T3	MOR	G	ROS
Tensile strength, daN/cm2, min	180	250	200	150	150	120	150	140	150
Elongation at break, %, min	400	450	400	70	450	350	350	350	350
Abrasion resistance (volume of wear), mm3, max	90	120	150	250	150	200	200	200	150
Resistant to oil	No	No	No	No	No	No	Medium	Good	Very good
Working temperature, °C [max]	70	70	70	70	120	150	70	80	100

Characteristics of insertions

Type of insertions	EP 80	EP 100	EP 125	EP 160
Insertions number	2 - 4			
Tensile strength, Kgf/cm, min	160 - 240	200 - 400	250 - 500	315 - 630
Width [mm]	350 - 500			
Thickness [mm]	4 - 12	6 - 12	6 - 12	6 - 12

Chevron conveyor belt

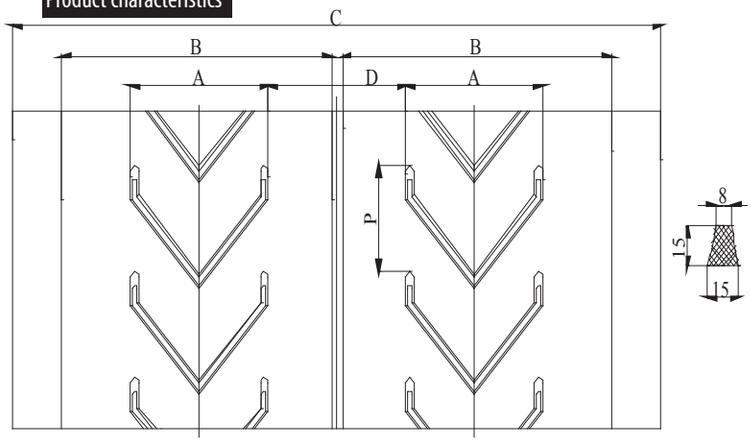
Applications

Chevron belting is used in applications where the inclination of the conveyor is steeper than would normally be recommended and would result in the material slipping or falling back. Chevron belt has special profiles moulded to the top cover making increased angles of inclination possible compared to smooth finish belts.
Typical applications for chevron belt include mobile crushing and screening plants or where the material may roll easily.

CHEVRON BELTS

Product characteristics

CHEVRON R15



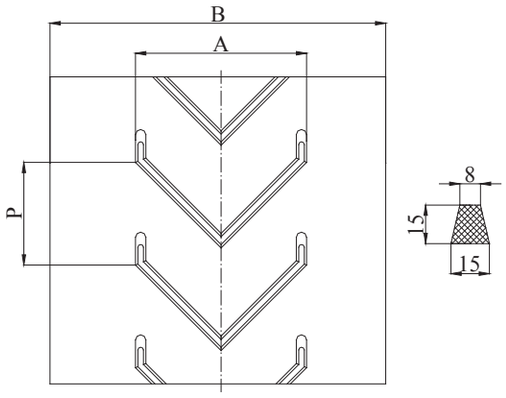
Rubber mixture, properties for covers	General use				Resistance to temperature		Resistance to oil		
	w	x	y	z	T2	T3	MOR	G	ROS
Tensile strength, daN/cm2, min	180	250	200	150	150	120	150	140	150
Elongation at break, %, min	400	450	400	70	450	350	350	350	350
Abrasion resistance (volume of wear), mm3, max	90	120	150	250	150	200	200	200	150
Resistant to oil	No	No	No	No	No	No	Medium	Good	Very good
Working temperature, °C [max]	70	70	70	70	120	150	70	80	100

Type	C [mm]	B [mm]	A [mm]	P [mm]	D [mm]
Chevron R15/250	800-1600	300	250	200	250
Chevron R15/250	800-1600	350	250	200	250
Chevron R15/250	800-1600	400	250	200	250
Chevron R15/250	800-1600	450	250	200	250
Chevron R15/250	800-1600	500	250	200	250

Characteristics of insertions

Type of insertions	EP 80	EP 100	EP 125	EP 160
Insertions number	2 - 4			
Tensile strength, Kgf/cm, min	160 - 240	200 - 400	250 - 500	315 - 630
Width [mm]	800 - 1600			
Thickness [mm]	4 - 12	6 - 12	6 - 12	6 - 12

CHEVRON R15



Rubber mixture, properties for covers	General use				Resistance to temperature		Resistance to oil		
	w	x	y	z	T2	T3	MOR	G	ROS
Tensile strength, daN/cm2, min	180	250	200	150	150	120	150	140	150
Elongation at break, %, min	400	450	400	70	450	350	350	350	350
Abrasion resistance (volume of wear), mm3, max	90	120	150	250	150	200	200	200	150
Resistant to oil	No	No	No	No	No	No	Medium	Good	Very good
Working temperature, °C [max]	70	70	70	70	120	150	70	80	100

Type	B [mm]	A [mm]	P [mm]
Chevron R15/250	300	250	200
Chevron R15/250	350	250	200
Chevron R15/250	400	250	200
Chevron R15/250	450	250	200
Chevron R15/250	500	250	200

Characteristics of insertions

Type of insertions	EP 80	EP 100	EP 125	EP 160
Insertions number	2 - 4			
Tensile strength, Kgf/cm, min	160 - 240	200 - 400	250 - 500	315 - 630
Width [mm]	300 - 500			
Thickness [mm]	4 - 12	6 - 12	6 - 12	6 - 12

Chevron conveyor belt

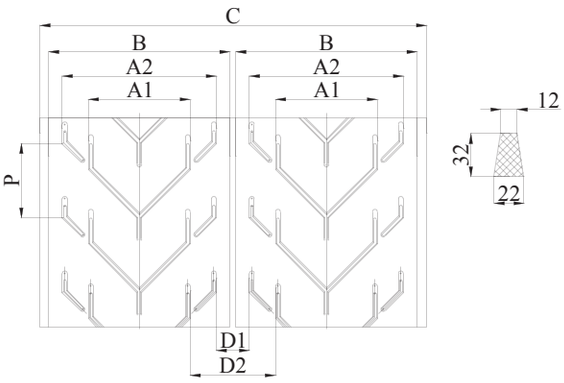
Applications

The Chevron cleats prevent or reduce the sliding effect and increase the amount of product conveyed. It can carry loose materials at angles of 17~18° and bagged materials at 30~50°.
This type of belt can be used in temperatures ranging from -30 to +70°C.
The carcass is made of polyamide/polyester (EP), polyester/polyester (EE), polyamide/polyamide (PP) fabrics.

CHEVRON BELTS

Product characteristics

CHEVRON R32



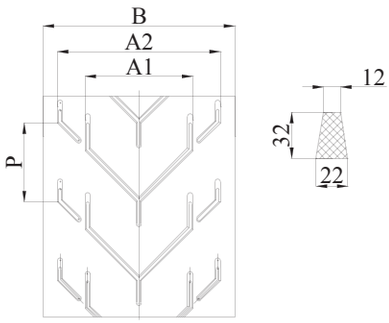
Type	C [mm]	B [mm]	A1 [mm]	A2 [mm]	P [mm]	D1 [mm]	D2 [mm]
Chevron R32/450	1300-1600	500-800	450	-	330	-	350
Chevron R32/680	1500-1600	700-800	450	680	330	120	350

Rubber mixture, properties for covers	General use				Resistance to temperature		Resistance to oil		
	w	x	y	z	T2	T3	MOR	G	ROS
Tensile strength, daN/cm2, min	180	250	200	150	150	120	150	140	150
Elongation at break, ⁄, min	400	450	400	70	450	350	350	350	350
Abrasion resistance (volume of wear), mm3, max	90	120	150	250	150	200	200	200	150
Resistant to oil	No	No	No	No	No	No	Medium	Good	Very good
Working temperature, °C [max]	70	70	70	70	120	150	70	80	100

Characteristics of insertions

Type of insertions	EP 80	EP 100	EP 125	EP 160
Insertions number	2 - 4			
Tensile strength, Kgf/cm, min	160 - 240	200 - 400	250 - 500	315 - 630
Width [mm]	1300 - 1600			
Thickness [mm]	4 - 12	6 - 12	6 - 12	6 - 12

CHEVRON R32



Type	B [mm]	A1 [mm]	A2 [mm]	P [mm]
Chevron R32/450	500-800	450	-	330
Chevron R32/680	700-800	450	680	330

Rubber mixture, properties for covers	General use				Resistance to temperature		Resistance to oil		
	w	x	y	z	T2	T3	MOR	G	ROS
Tensile strength, daN/cm2, min	180	250	200	150	150	120	150	140	150
Elongation at break, ⁄, min	400	450	400	70	450	350	350	350	350
Abrasion resistance (volume of wear), mm3, max	90	120	150	250	150	200	200	200	150
Resistant to oil	No	No	No	No	No	No	Medium	Good	Very good
Working temperature, °C [max]	70	70	70	70	120	150	70	80	100

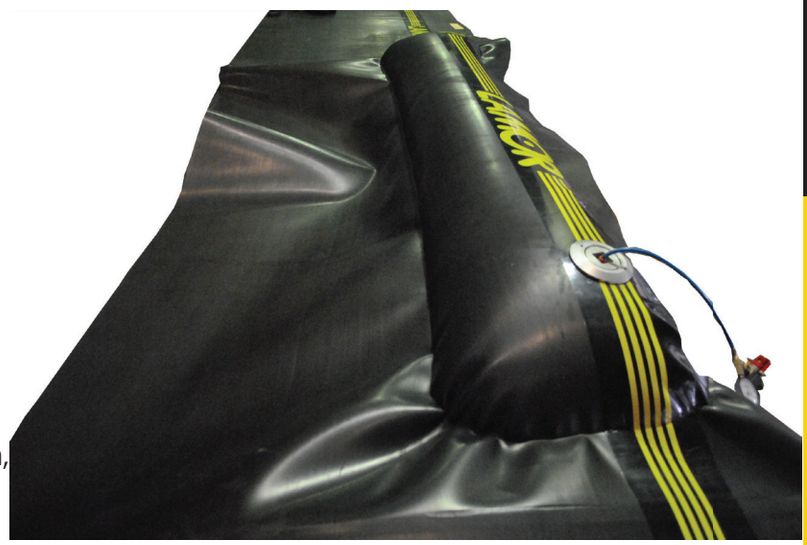
Characteristics of insertions

Type of insertions	EP 80	EP 100	EP 125	EP 160
Insertions number	2 - 4			
Tensile strength, Kgf/cm, min	160 - 240	200 - 400	250 - 500	315 - 630
Width [mm]	500 - 800			
Thickness [mm]	4 - 12	6 - 12	6 - 12	6 - 12

OIL BOOM - HOB 1300- 2EP 160 –(1+1) 4.5 mm

Generalities

The oil boom is specially designed for open sea and large open harbours.
It has therefore been necessary to set high demands on the strength of the materials used. Both the skirt and freeboard consist of two plies of synthetic fabric, vulcanized together with synthetic oil resistant rubber(polychloroprene rubber based). All attachments are sea water resistant. The special steel plates vulcanized between the rubber fabric guarantees safe operation. The boom is fully symmetric; it has no front or back. This is an advantage.
The symmetry makes it possible to tow the boom quickly in a straight line from one position to another, and attack any oil spill with either of the sides facing the spill. The smooth, plane parallel surfaces are very easy to clean when necessary, although experience shows that most types of oil do not stick to the boom.
Working temperature: - 40°C … + 60°C.



Thickness, (mm)	4.5 ± 0.5
Thickness of top cover, (mm)	1. 0
Thickness of bottom cover, (mm)	1. 0
Length of singular piece, (mm)	3000 ± 5%
Width, (mm)	1300 ± 13.0

Insertion characteristics	Type		2 x EP 160
	Tensile strength in long direction, (N/mm)		≥ 315
	Elongation at break in long direction, (%)		≥ 10
Adhesion between: (N/mm), min.	Top cover / 1st ply		5.0
	1st ply / 2nd ply	longitudinal	8.0
		transversal	10.0
	Bottom cover / 2nd ply		5.0

CHARACTERISTICS		REQUESTED VALUE
Tensile strength, (M Pa) , min.		13.0
Elongation at break, (%) , min		300
Hardness, (° Sh A)		65 ± 5
Tear resistance, (M Pa), min.		1.5
Resistance to Fluid B (72 h*23°C), (%), max.	weight change	40
	volume change	60
Resistance to Fluid C (72 h*23°C), (%), max.	weight change	65
	volume change	90
Resistance to ASTM #1 Oil, (72 h*100°C), (%), max.	weight change	± 5
	volume change	± 5
Resistance to ASTM #3 Oil, (72 h*100°C), (%), max.	weight change	40
	volume change	60
Ozone resistance, (30°C * 50pphm * 20% elongation, with the naked eye)		no cracks
Weathering resistance, 45days		no change

ASPECT

Oil boom is supplied with smoothly, plane parallel surfaces.

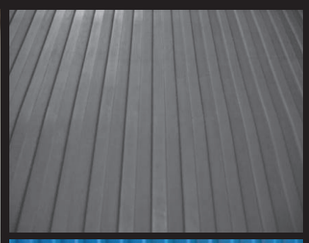
Marks or irregularities on the surface are allowed provided that these would not materially affect the performance of the oil boom.

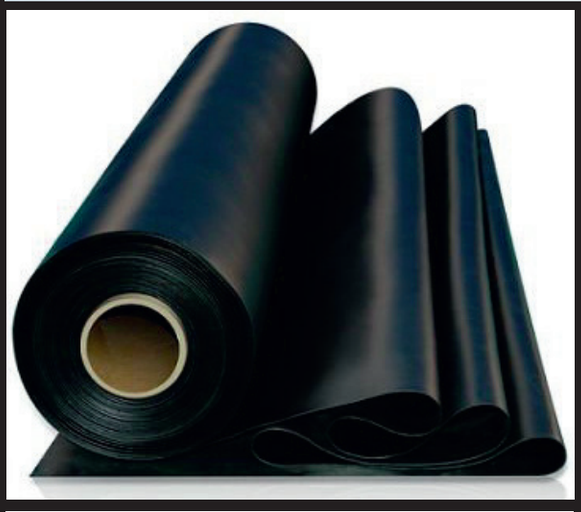
OIL BOOM DESIGNED FOR OPEN SEA

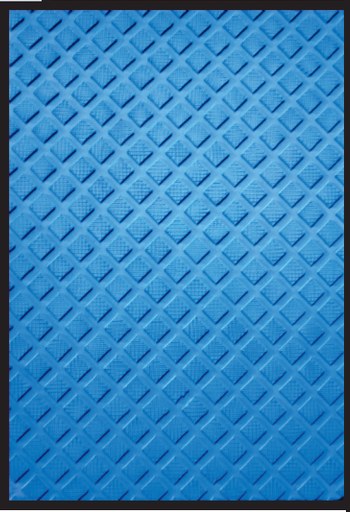
SPECIAL PRODUCTS

TOUGH AND DURABLE

RUBBER SHEETS AND RUBBER MATS

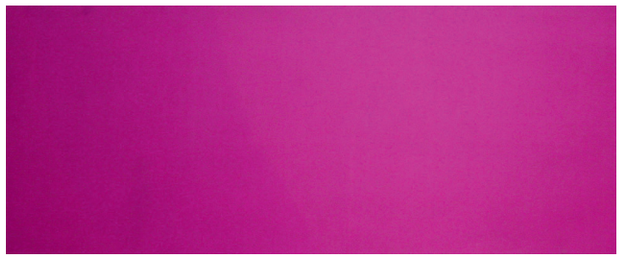






COMART-RUBBER SHEETS FOR GENERAL USE

This refers to SBR, NR or a blend of SBR with NR quality, suitable for general application where no particular, physical properties are required. They are used for water, air and alkaline solutions.



RUBBER SHEETS BASED ON SBR

Comart 1.1.1

Color	black
Hardness° Shore A	50±5
Tensile strength(kgf/cm^2)min.	40
Elongation at break%, min.	300
Density g/cm^3 max.	1,3
Compression set (24hx70°),% max.	40
Working temperature, °C	-30°C….+70°C

Comart 1.1.2

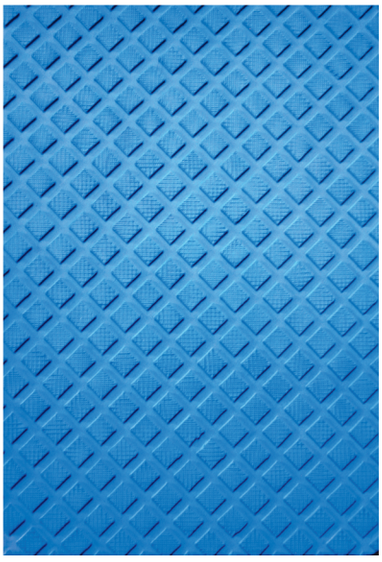
Color	black
Hardness° Shore A	60±5
Tensile strength(kgf/cm^2)min.	50
Elongation at break %,min.	200
Density g/cm^3 max.	-
Compression set (24hx70°),% max.	-
Working temperature, °C	-30°C….+70°C

Comart 1.1.3

Color	black
Hardness° Shore A	65±5
Tensile strength(kgf/cm^2)min.	40
Elongation at break %,min.	150
Density g/cm^3 max.	1,45
Compression set (24hx70°),% max.	30
Working temperature, °C	-30°C….+70°C

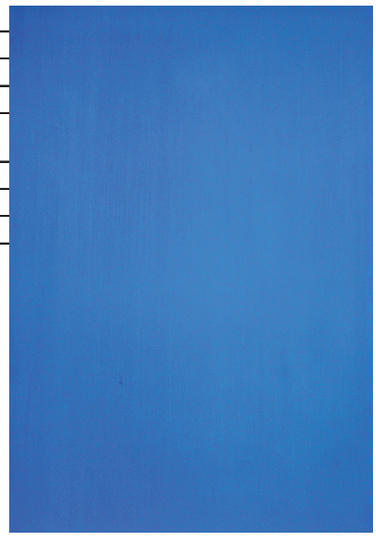
Comart 1.1.4

Color	black
Hardness° Shore A	70±5
Tensile strength(kgf/cm^2)min.	60
Elongation at break %,min.	150
Density g/cm^3 max.	1,45
Compression set (24hx70°),% max.	30
Working temperature, °C	-30°C….+70°C



Comart 1.1.5

Color	black
Hardness° Shore A	80±5
Tensile strength(kgf/cm^2)min.	40
Elongation at break %,min.	150
Density g/cm^3 max.	$1,4^{\pm 0,1}$
Compression set(24hx70°),% max.	-
Working temperature, °C	-30°C….+70°C



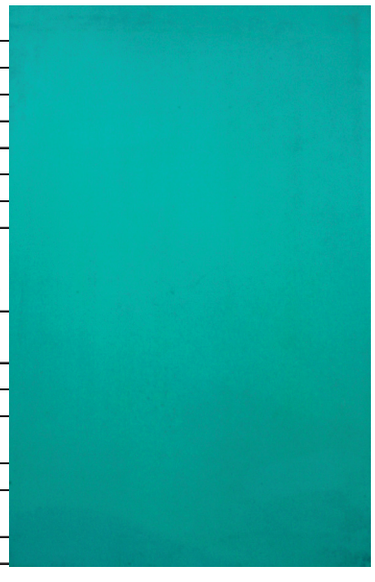
Comart 1.1.6

Color	black
Hardness° Shore A	65±5
Tensile strength(kgf/cm^2)min.	70
Elongation at break %,min.	350
Density g/cm^3 max.	1,4
Change of volume (ΔV) after immersion,.%	
Alkaline fluids solution with cu PH =11 test condition ,72 orex70°C	
ΔV	±3
Working temperature, °C	-30°C….+70°C

Comart 1.1.7

This refers to rubber sheets based on an economical rubber mixture, which are recommended for general use in circumstances that do not require any special physical and mechanical properties.

Color	black
Hardness° Shore A	70±5
Tensile strength(kgf/cm^2)min.	30
Elongation at break,%, min.	150
Density g/cm^3 max.	1,5..1,59
Compression set, (24hx70°), % max.	-
Working temperature, °C	-30°C….+70°C



Comart 1.1.8….1.1.14

These are manufactured in a wide range of colors; they are suitable for products that need to stay clean.

Color	1.1.8-beige;1.19-red;1.1.10-white;1.1.11-yellow;1.1.12-blue; 1.1.13-green;1.1.14-brown;1.1.15-grey
Hardness° Shore A	60±5
Tensile strength(kgf/cm^2)min.	40
Elongation at break %,min.	350
Density g/cm^3 max.	1,5
Compression set (24hx70°), % max.	-
Working temperature, °C	-30°C….+70°C

COMART-RUBBER SHEETS FOR GENERAL USE

This refers to SBR, NR or a blend of SBR with NR quality, suitable for general application where no particular, physical properties are required. They are used for water, air and alkaline solutions.

RUBBER SHEETS BASED ON BLEND OF SBR AND NR

Comart 1.2.1

Color	beige
Hardness° Shore A	45±5
Tensile strength(kgf/cm^2)min.	40
Elongation at break %, min.	300
Density g/cm^3 max.	1-1,2
Working temperature, °C	-30°C….+70°C

Comart 1.2.3

Color	black
Hardness° Shore A	65±5
Tensile strength(kgf/cm^2)min.	70
Elongation at break %,min.	350
Density g/cm^3 max.	1,4
Change of weight (ΔM)after immersion,.%	
Fluid, HCl solution ,20%	
test condition ,6 ore X70°C	
ΔM	±3
Working temperature, °C	-30°C….+70°C

RUBBER SHEETS BASED ON NR

Comart 1.3.1

Color	black
Hardness° Shore A	45±5
Tensile strength(kgf/cm^2)min.	100
Elongation at break %,min.	350
Density g/cm^3 max.	1,35
Working temperature, °C	-30°C….+70°C

Comart 1.3.2

Color	beige
Hardness° Shore A	40±5
Tensile strength(kgf/cm^2)min.	160
Elongation at break, %, min.	530
Density g/cm^3 max.	1+0,15
Working temperature, °C	-30°C….+70°C

Comart 1.3.3

Color	black
Hardness° Shore A	70±5
Tensile strength(kgf/cm^2)min.	100
Elongation at break, %, min.	350
Density g/cm^3 max.	1,35
Working temperature, °C	-30°C….+70°C

Comart 1.2.2

Color	yellow
Hardness° Shore A	45±5
Tensile strength(kgf/cm^2)min.	40
Elongation at break %, min.	300
Density g/cm^3 max.	1-1,2
Working temperature, °C	-30°C….+70°C

ABRART-OIL ART ABRASION RESISTANT RUBBER SHEETS

Manufactured from SBR and a blend of SBR and NR they feature very good mechanical properties and very good resistance to abrasion. They are suitable for the protection of parts that are exposed to high abrasion.

Abrart 2.1

Color	black
Hardness° Shore A	60±5
Tensile strength(kgf/cm^2)min.	150
Elongation at break %,min.	400
Abrasion resistance, mm^3, max.	120
Density g/cm^3 max.	1,15
Working temperature, °C	-30°C….+70°C

OILART-OIL RESITANT RUBBER SHEETS

This refers to a product based on nitrile-butadiene rubber which is resistant to fuel B or to a blend of NBR and SBR which is resistant to oil, mineral, animal and vegetal fats.

RUBBER SHEETS BASED ON NBR

They feature excellent quality; they are suitable for use in applications involving exposure to fuels and petroleum.

Oilart 3.1

Color	black
Hardness° Shore A	50±5
Tensile strength(kgf/cm^2)min.	75
Elongation at break %,min.	450
Compression set (24h x70°C),% max.	25
Change of volume (ΔV) after immersion, % max	
Fluid B(70toluene/30isooctane); test condition ,22 h x40°C	
ΔV,%	0…+35
Working temperature, °C	-25°C…+110°C

Oilart 3.2

Color	black
Hardness° Shore A	60±5
Tensile strength(kgf/cm^2)min.	85
Elongation at break %,min.	400
Compression set (24h x70°C),% max.	20
Change of volume (ΔV) after immersion. % max	
Fluid, B(70toluene/30isooctane) ; test condition ,22 h x40°C	
ΔV,%	0……+30
Working temperature, °C	-25°C….+110°C

Oilart 3.3

Color	black
Hardness° Shore A	70±5
Tensile strength(kgf/cm^2)min.	125
Elongation at break %,min.	250
Compression set (24h x70°C),% max.	20
Change of volume (ΔV) after immersion,.%max	
Fluid B(30toluene/70isooctane); test conditions, 22 h x 40°C	
ΔV,%	0…+30
Working temperature, °C	-25°C…+110°C

Oilart 3.3

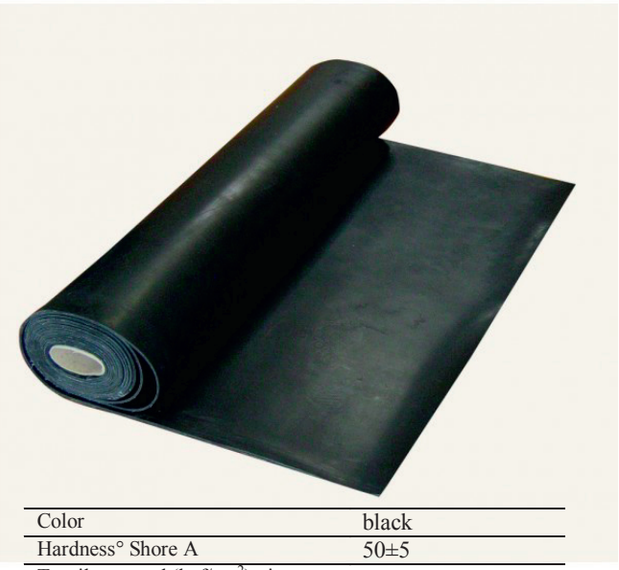
Color	black
Hardness° Shore A	80±5
Tensile strength(kgf/cm^2)min.	125
Elongation at break %,min.	150
Compression set (24h x70°C),% max.	20
Change of volume (ΔV) after immersion,.%max	
Fluid B(30toluene/70isooctane): test condition, 22 h x 40°C	
ΔV,%	0…+30
Working temperature, °C	-25°C…+110°C

RUBBER SHEETS BASED ON BLEND OF SBR AND NBR

Manufactured from styrene-butadiene and nitrile rubber blends, they are recommended for use with mineral and animal oils and fats.

Oilart 3.5-3.6

Color	black
Hardness° Shore A	3.5-70±5;3.6-80±5
Tensile strength(kgf/cm^2)min.	50
Elongation at break %,min.	200
Compression set (24h x70°C), % max.	40
Density ,g/cm^3	1,35
Change of volume (ΔV) after immersion,.%max	
ASTM oil nr. 3	
Test condition, 70 h x 100°C	
ΔV,%	0…+30
Working temperature, °C	-30°C…+110°C



Color	black
Hardness° Shore A	50±5
Tensile strength(kgf/cm^2)min.	40
Elongation at break %,min.	200
Compression set (24h x70°C), % max.	40
Density ,g/cm^3	1,3
Change of volume (ΔV) after immersion,.%max	
ASTM oil nr.3	
Test condition, 70 h x 100°C	
ΔV,%	0…+30
Working temperature, °C	-30°C…+110°C

HEATART- HEAT RESISTANT RUBBER SHEETS

This refers to EPDM or a blend of EPDM with IIR quality, recommended for application in temperatures exceeding 110°C up to 150°C. It is resistant to ozone and ageing factors.

RUBBER SHEETS BASED ON EPDM

Heatart 4.1 economical

Color	black
Hardness° Shore A	60±5
Tensile strength(kgf/cm^2)min.	50
Elongation at break %, min.	300
Density ,g/cm^3	1,25
Ageing resistance ,70h x 100°C	
Decrease of tensile strength, % max.	-30
Decrease of elongation, % max.	-50
Change of hardness, °Shore A	+10
Working temperature, °C	-40°C…+130°C

Heatart 4.2 normal quality

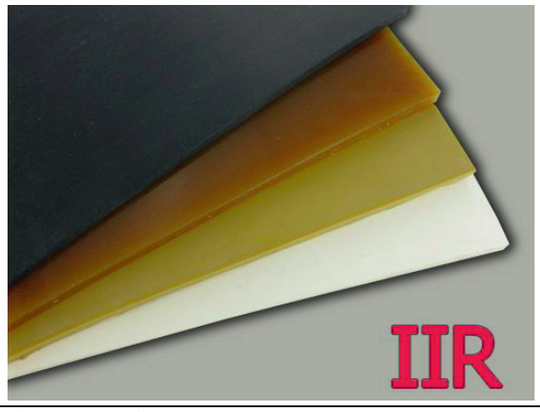
Color	black
Hardness° Shore A	65±5
Tensile strength(kgf/cm^2)min.	125
Elongation at break %, min.	300
Density ,g/cm^3	1,25
Ageing resistance,168h x 150°C	
Decrease of tensile strength, % max.	-60
Decrease of elongation, % max.	-80
Change of hardness, °Shore A	+20
Working temperature, °C	-40°C…+150°C

RUBBER SHEETS BASED ON BLEND OF EPDM AND IIR

This refers to products based on ethylene-propylene terpolymers and butyl rubber blends that feature very good physical-mechanical properties; they are suitable for use in high temperature conditions and for exposure to ozone and weathering factors.

Heatart 4.3

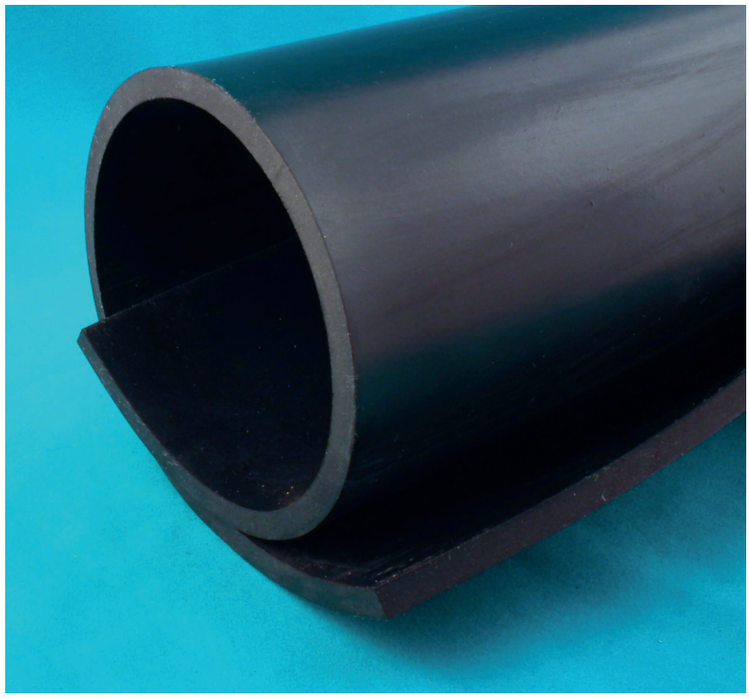
Color	black
Hardness° Shore A	65±5
Tensile strength(kgf/cm^2)min.	85
Elongation at break %, min.	300
Working temperature, °C	-40°C…+160°C



Ageing resistance, 168 h x 150°C	
Decrease of tensile strength, % max.	-60
Decrease of elongation at break, %max.	-80
Change of hardness, °Shore A, max	+15

NEOART-RUBBER SHEETS BASED ON NEOPRENE

This refers to a product based on polychloroprene rubber, recommended for applications that involve exposure to atmospheric agents at average temperatures. It is resistant to chemical substances like acids and bases.



Neoart 5.1

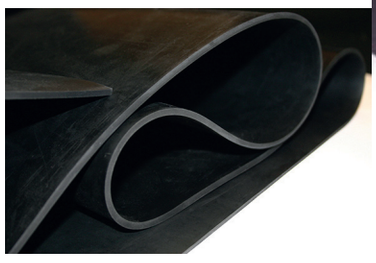
Color	black
Hardness° Shore A	50±5
Tensile strength(kgf/cm^2)min.	120
Elongation at break %,min.	400
Compression set (24h x70°C), % max.	30
Change of volume (ΔV) after immersion,.%max	
Fluid B (70 isooctane/30 toluene)	
Test condition, 22 h x 40°C	
ΔV,%	0…+80
Working temperature, °C	-40°C…+100°C

Neoart 5.2

Color	black
Hardness° Shore A	60±5
Tensile strength(kgf/cm^2)min.	130
Elongation at break %,min.	250
Compression set (24hx70°C), % max.	25
Change of volume (ΔV) after immersion ,.%max	
Fluid B (70 isooctane/30 toluene)	
Test condition, 22 h x 40°C	
ΔV,%	0…+70
Working temperature, °C	-40°C…+100°C

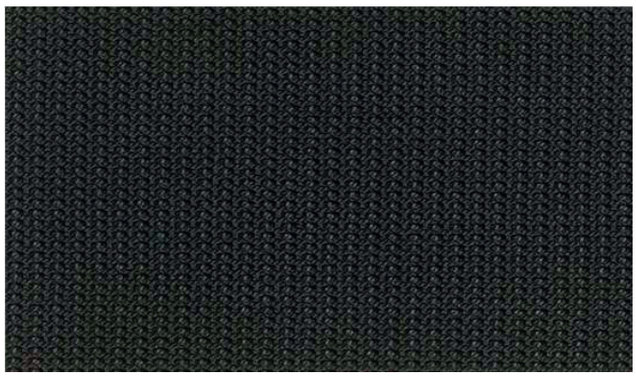
Neoart 5.3

Color	black
Hardness° Shore A	60±5
Tensile strength(kgf/cm^2)min.	130
Elongation at break %,min.	250
Compression set (24hx70°C), % max.	25
Change of volume (ΔV) after immersion,.%max	
Fluid B (70 isooctane/30 toluene)	
Test condition, 22 h x 40°C	
ΔV,%	0…+70
Working temperature, °C	-40°C…+100°C



TRISART-RUBBER SHEETS BI COLOURED SANDWICH*ROUGHART-RUBBER SHEETS WITH ROUGH TOP MODEL

This refers to a product based on Sandwich SBR quality: this features two layers of black rubber and one colored layer of rubber.
It is recommended for applications that involve exposure to water and air; also for conditions that require resistance to abrasion and certain mechanical properties.



Trisart 6.1

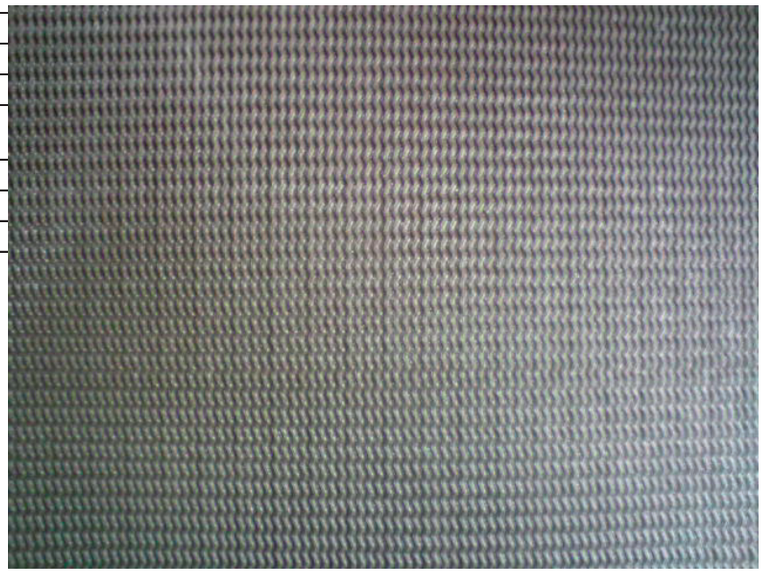
Color	Black/Green/Black ; Black/Yellow/Black; Black/Red/Black
Hardness° Shore A	Black:70±5,coloured:45±5
Tensile strength(kgf/cm^2)min.	Black:150,coloured:80
Elongation at break %,min.	Black:300,coloured:450
Abrasion resistance, mm^3 max.	150
Working temperature, °C	-30°C….+70°C

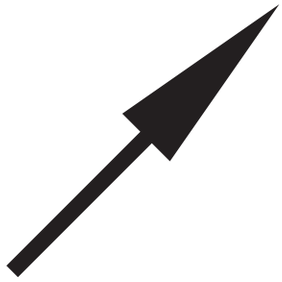
ROUGHART-RUBBER SHEETS WITH ROUGH TOP MODEL

These rubber sheets are based on SBR quality; they are resistant to abrasion and feature one surface top rough model. They can also be used as a mould.

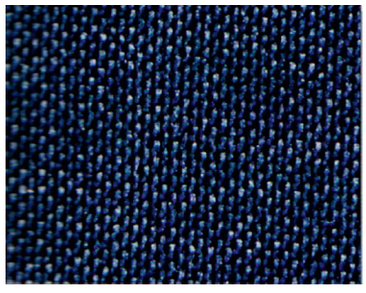
Roughart 7.1

Color	black
Hardness° Shore A	60±5
Tensile strength(kgf/cm^2)min.	50
Elongation at break %,min.	220
Abrasion resistance, mm^3 max.	200
Density ,g/cm^3	1,45
Working temperature, °C	-30°C….+70°C





ROUGHART-RUBBER SHEETS WITH TOP ROUGH

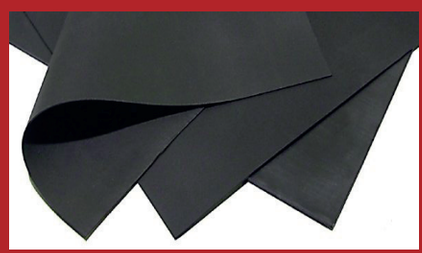


OZOART- OZONE RESISTANT RUBBER SHEETS

These rubber sheets are based on EPDM rubber quality which is particularly recommended for applications that require resistance to all atmospheric agents; also resistant to ozone and ageing factors.

Ozoart 8.1

Color	black
Hardness° Shore A	60±5
Tensile strength(kgf/cm^2)min.	50
Elongation at break % ,min.	300
Density ,g/cm^3	1,25
Ageing resistance,70hx 100°C	
Decrease of tensile strength, % max.	-30
Decrease of elongation, %max.	-50
Change of hardness ,°Shore A	+10
Working temperature ,°C	-40°C…+130°C



ASPECT AND DIMENSIONS

Thickness: 1 to 40 mm

Surface appearance: -for thickness 1 to10 mm, both smooth surfaces, one smooth surface and the other impressed or both impressed surfaces;

- for thickness over 10mm, one smooth surface and the other impressed or both smooth surfaces;

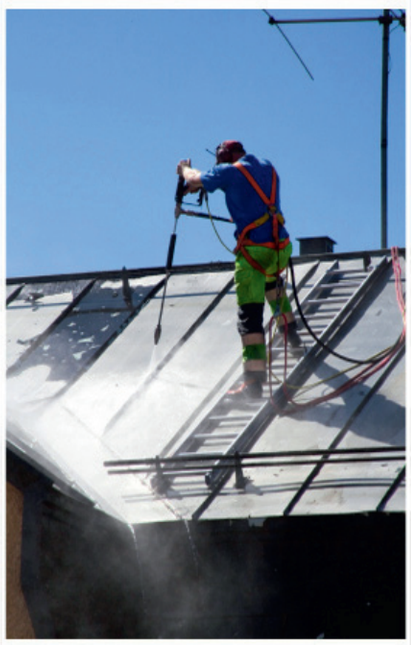
Length (mm): 5000; 10000±3%

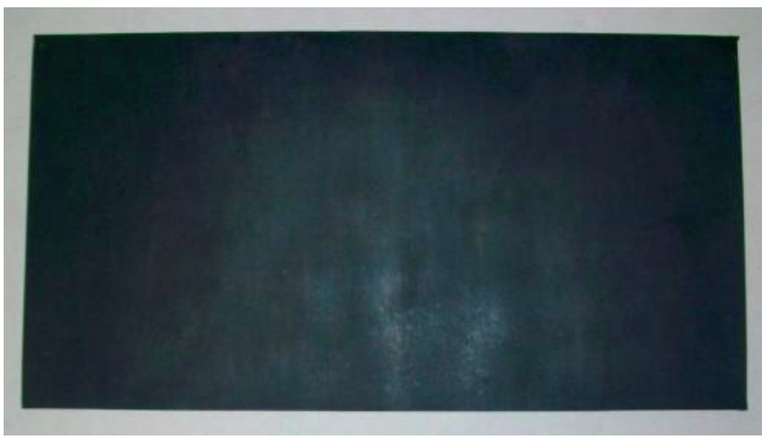
Width (mm): 1200; 1300; 1400; 1600±3%

Structure: either mono-structure or with one or two textile insertions.

TOLERANCE OF THICKNESS

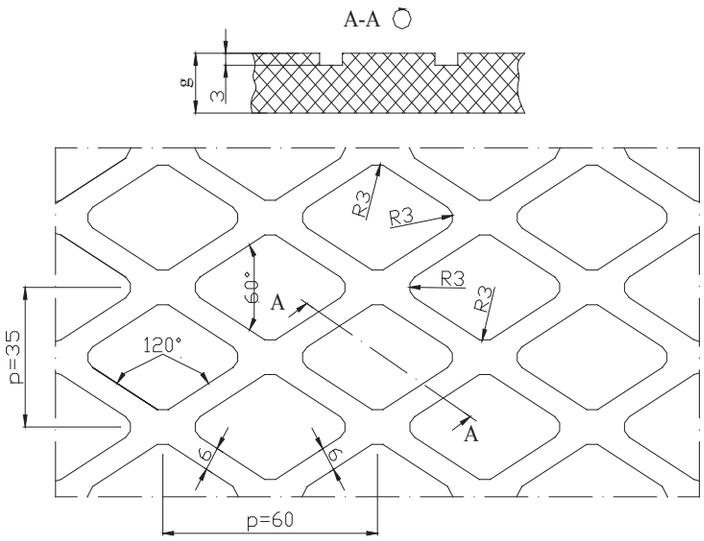
Thickness	1,00	1,50	2,00	3,00	4,50	6,00	10,00	12,50 and over
Tolerance	±0,20	±0,25	±0,30	±0,40	±0,55	±0,75	±1,00	±10%





DIAMOND LAGGING 6&8 mm

Black rubber sheets made from SBR with one side and adhesive undercoating on the other side it can be used at temperatures between -30...+ 70 C ° .



Increased tolerance of hardness by max. 5% are allowed for rubber sheet with plies reinforcement.

It is allowed tolerances,
in width : ± 3 %;
in length : ± 3 %
For the quantity delivered in one shipment, maximum 20% of the rolls may not necessarily be supplied in one continuous length , but it will not contain more than two pieces.

TECHNICAL CONDITION OF QUALITY

Thickness (mm)	8.0	10.0	12 .0
Tolerances (mm) ±	0.8	1.0	1.0
Length- meters	50		
Width- mm	1500		

The diamond lagging can also be manufactured in 6 mm thickness.

PHYSICAL AND MECHANICAL PROPERTIES OF RUBBER MIXTURE

CHARACTERISTICS	REQUESTED VALUES	
	Black compound	Color compound
a) Hardness, (° Shore A)	60 ± 5	low vulcanized
b) Tensile strength, (Kgf/cm^2) , min	150	chloroprene
c) Elongation at break , (%) , min	400	rubber compound
d) Abrasion,(mm^3),max.	200	

ASPECT

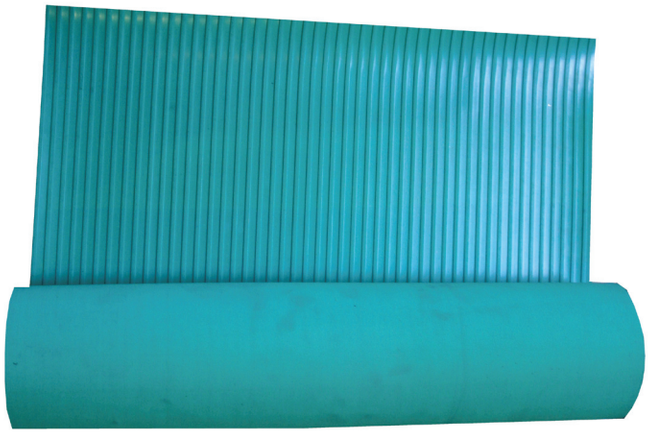
Color : black – red

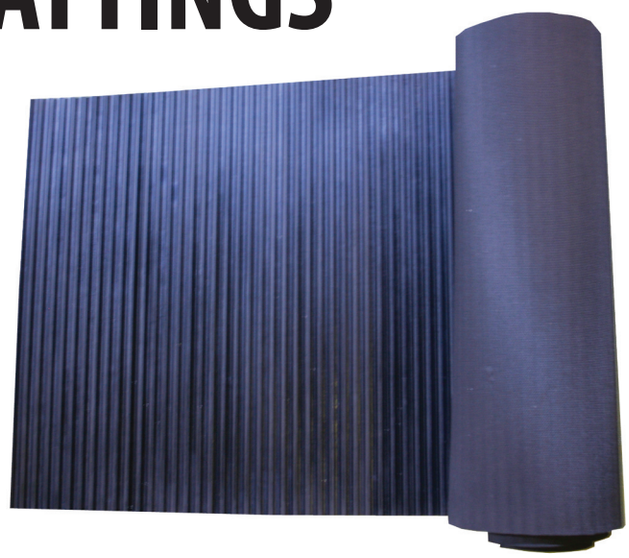
Marks or irregularities on the surface are allowed if these would not materially affect the performance of the sheet.

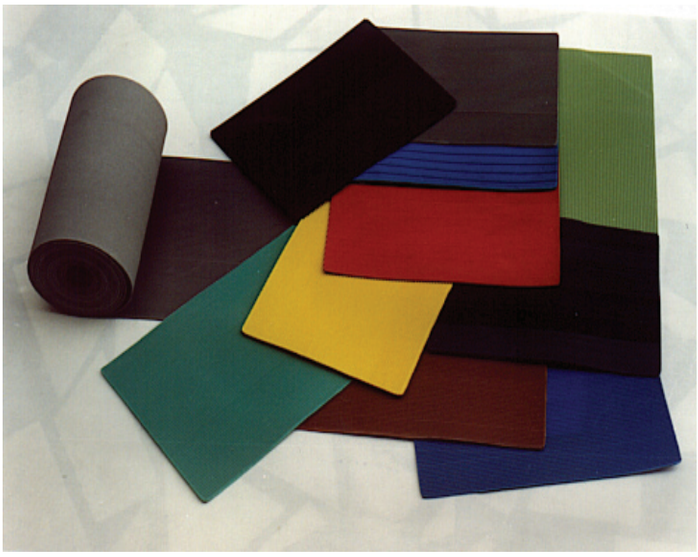
ENVIRONMENTAL DATA

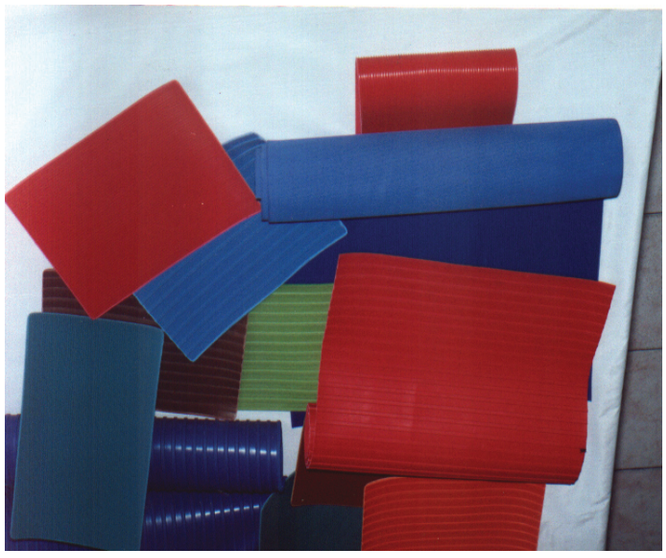
Rubber sheets are not dangerous for people and environment .Waste resulted from worn-out products can be recycled or can be used like combustible material ,when there is not any possibility to regenerate them.

RUBBER MATTINGS









COMONMAT-RUBBER MATTING FOR GENERAL USE- -OZOMAT- OZONE RESISTANT RUBBER MATTINGS

These rubber matting are based on SBR or a blend of SBR and NBR; also based on a blend of SBR with CR quality, which are suitable for general applications; they are used for floor covering in conditions that do not require any particular physical and chemical properties. They are water and air resistant.

RUBBER MATTINGS BASED ON SBR

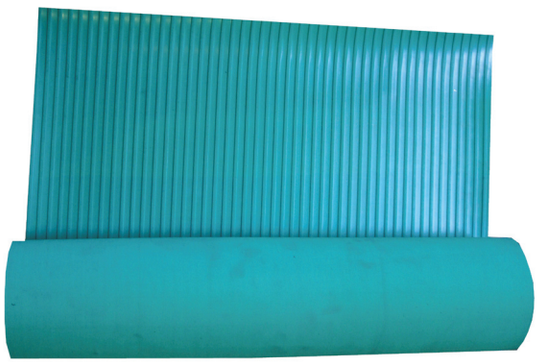
Comonmat 1.1.1

Color	black
Hardness° Shore A	65±5
Tensile strength(kgf/cm^2)min.	40
Elongation at break %,min.	150
Density, g/cm^3 max.	1,45
Thickness, mm	2,7..9,5
Working temperature, °C	-30°C….+70°C

Comonmat 1.1.2….1.1.9

They are manufactured in a wide range of colors and are recommended for floor-covering in conditions that require the matting to have some no-staining properties.

Color	1.1.2-beige;1.1.3-red;1.1.4-white;1.1.5-yellow;1.1.6-blue;1.1.7-green;1.1.8-brown;1.1.9-grey
Hardness° Shore A	60±5
Tensile strength(kgf/cm^2)min.	40
Elongation at break %,min.	350
Density, g/cm^3 max.	1,5..1,6
Thickness, mm	2,7..9,5
Working temperature, °C	-30°C….+70°C



OZOMAT- OZONE RESISTANT RUBBER MATTINGS

Ozomat 2.1

This product is based on EPDM quality and is recommended for floor covering in conditions that require no-staining properties; also resistant to ozone exposure.

Color	black
Hardness° Shore A	60±5
Tensile strength(kgf/cm^2)min.	30
Elongation at break %, min.	150
Density, g/cm^3	1,2
Test ozone(50pphmx20%elongationx20°Cx72h)	No crack
Staining test(24hx70°)	No staining
Thickness.mm	2,7….6
Working temperature, °C	-40°C…+150°C

ELECTROMAT-ELECTRINSULATED RUBBER MATTINGS--FIREMAT-INSULATION AND FLAME RESISTANT

They are based on SBR quality and are recommended for covering floors of areas in the vicinity of electrical machines, where there is the risk of possible contact with high-voltage conductors which do not exceed 650V (3.1 and 3.2), 1000 V (3.3) or 6000V (3.4).

Electromat 3.1

Color	black
Hardness° Shore A	60±5
Tensile strength(kgf/cm^2)min.	50
Elongation at break %, min.	250
Resistance at test voltage	11000 V
Thickness.mm	6±0,75
Working temperature, °C	-30°C…+70°C

Electromat 3.2

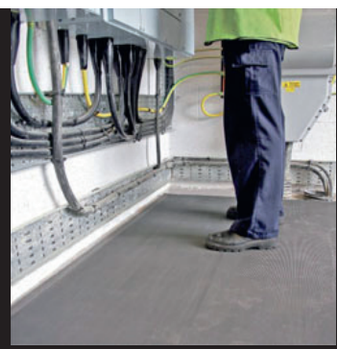
Color	black
Hardness,° Shore A	60±5
Tensile strength(kgf/cm^2)min.	50
Elongation at break %, min.	250
Resistance at test voltage	15000 V
Thickness.mm	min 7,5, max.9,5
Working temperature, °C	-30°C…+70°C

Electromat 3.3

Color	grey
Hardness° Shore A	65±5
Tensile strength(kgf/cm^2)min.	50
Elongation at break %, min.	250
Resistance at test voltage	45000 V
Thickness.mm	min 4,5, max.9,5
Working temperature, °C	-30°C…+70°C

Electromat 3.4

Color	black
Hardness° Shore A	60±5
Tensile strength(kgf/cm^2)min.	40
Elongation at break %, min.	200
Resistance at test voltage	20000 V
Thickness.mm	min 5, max.9,5
Working temperature, °C	-30°C…+70°C



ELECTRICALLY INSULATED RUBBER MATTINGS

FIRE RESISTANT AND FLAME RETARDANT RUBBER MATTINGS

The rubber matting can be manufactured with one impressed surface and the other with a narrow (design A), broad (design B) or very broad (design C) ribbed design.

Length (mm): 5500; 10000; 12000.±3%

Width (mm):900; 915; 1000; 1200, ±2%

FIREMAT-INSULATION AND FLAME RESISTANT

Electroinsulating and flame resistant matting are used for added protection to cover the floors of buildings where there is electrical equipment. They are fire resistant.

Color	black
Tensile strength(kgf/cm^2)min.	50
Elongation at break % ,min.	250
Resistance at test voltage of	20000 V
Flame resistance according to ISO 340-94:	a)flame resistance must be under 20 s for every piece tested b)the flame must not reappear in drafty applications
Thickness.mm	9,5±0,5;12±1
Working temperature, °C	-30°C…+70°C

BUMPERS

They are manufactured from rubber mixtures of superior quality thus they are incredibly resistant when exposed to dynamic loadings. They also feature great resistance to ozone and atmospheric agents.

TYPES OF BUMPERS

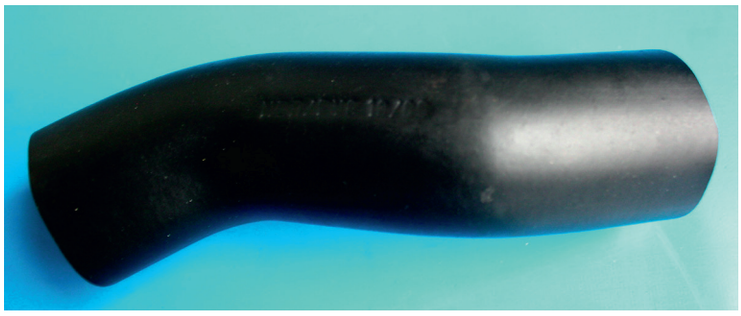
buffer support for engine and gearbox ;
buffer for supporting the muffler;
central axle elastic bushing;
shackle bushing Φ40x16x37.5, with armature;
rubber bushing Φ46x22x32.

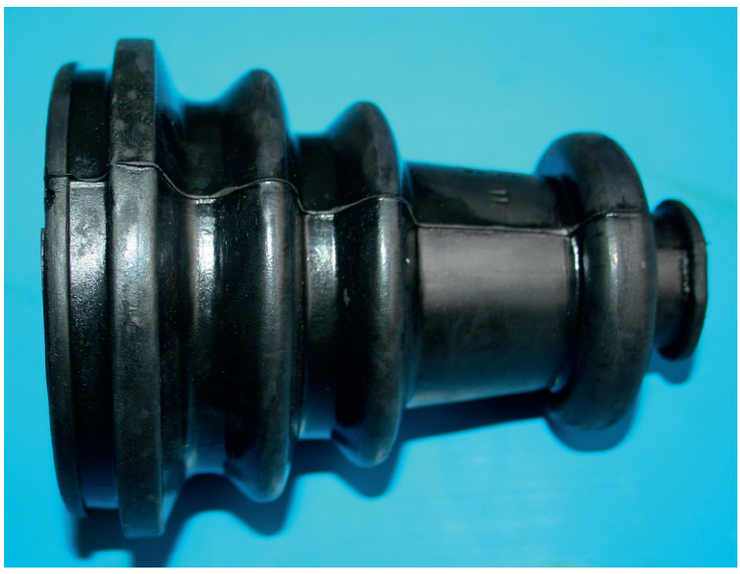
HOSES AND CLUTCHES

We make joint-hoses and elastic cranks for cars, trucks and tractors cooling systems.

They can be with or without a textile insertion.
We manufacture transmission boots used at axle shafts and also steering boots and joint ball suspension boots that belong to this category.

They are made from a rubber mixture with medium resistance to oil products, with hardness of 50-60o Shore A, break resistance of minimum 140 kgf/ cm2 and with high resistance to ozone, low temperatures and repeated flexing resistance.

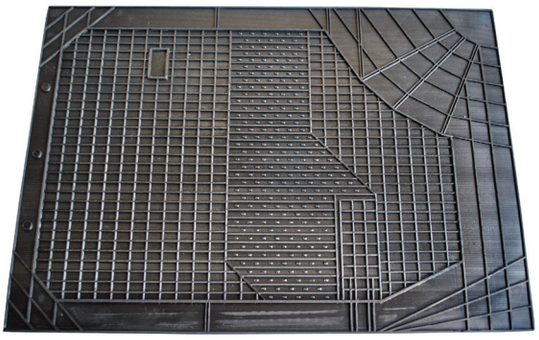


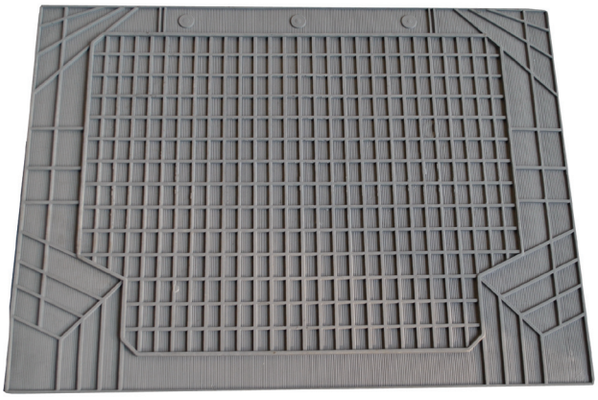


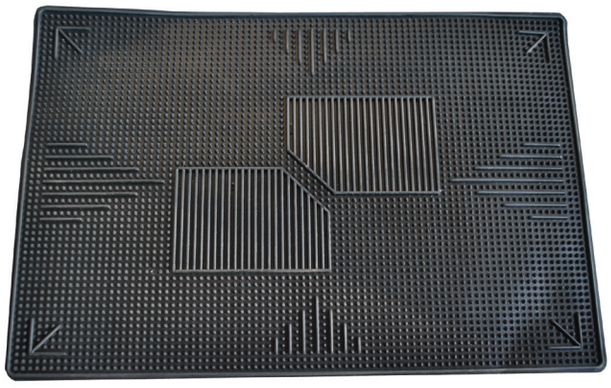
CARPETS

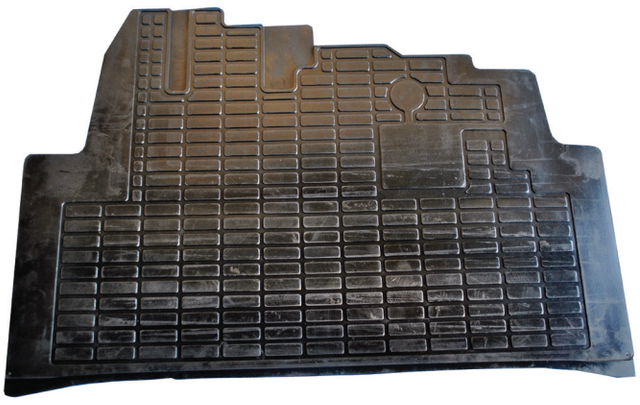
Dimensions:
1. Model with thorns:
605x658x8 mm right face;
646x587x8 mm left face
350x587x8 mm behind

2. Model with squares:
744x518x8 mm face
378x510x8 mm behind







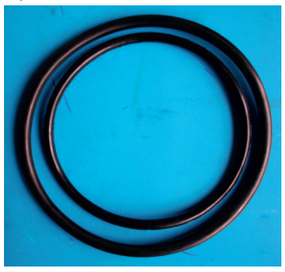


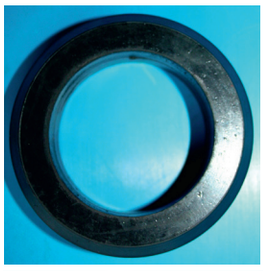
PROFILED GASKETS

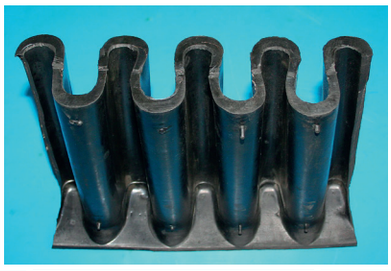
These kinds of gaskets are used for tightening wagon doors and windows.
They are manufactured in two types:
Top heat, ozone and atmospheric agents resistant, working at temperatures ranging between -40 and +125oC;
Medium heat, ozone and atmospheric agents resistant at temperatures ranging between -37oC and +70oC.
Our company also manufactures profiles for sealing railway cart wagon windows and doors and profiles for sealing aluminum windows and doors used in construction.
Profile gaskets are manufactured from rubber mixtures with great resistance to heat, ozone and atmospheric agents at temperatures ranging between -40 and +125oC; they can also be manufactured from fire-resistant mixtures.
We also manufacture very long profiled gaskets for general use or oil resistant gaskets to be used for the sealing of devices of wide circumferences. We also manufacture profiles for sealing Dacia Break tablet.

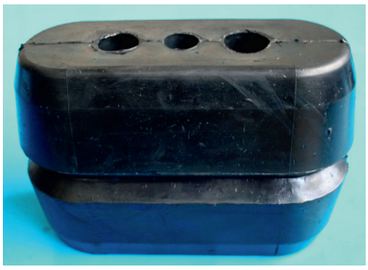
O RINGS

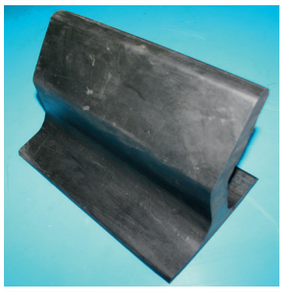
They are manufactured from rubber with no textile or metallic insertions, and are useful in machine building, for fixed or mobile gaskets, for translation or rotational motion. "O" Rings are oil and fuel resistant, gas-proof and non-resistant to aromatic hydrocarbons.

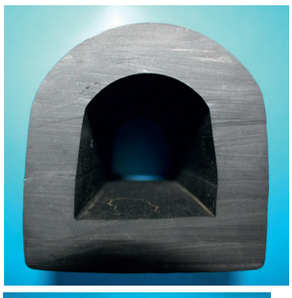


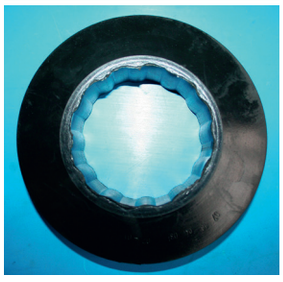


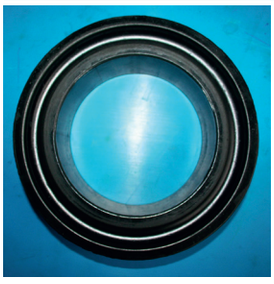


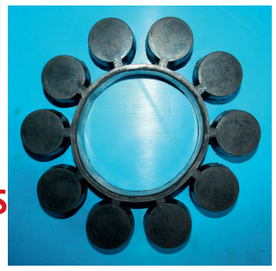










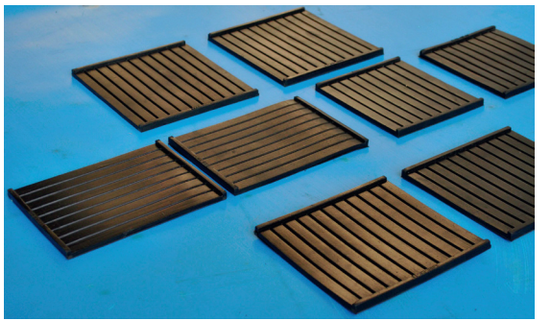


RAIL PLATES

Rubber plates mounted under rails, manufactured in agreement with the UIC standards; also elastic elements for supporting the shacking screens for coal preparation.

GASKETS FOR CONVEYORS

Flippers and distance pieces used to protect from metallic roller wear, they are manufactured for underground or above surface use in different circumstances and environments;
lids and rings used as tightening elements for roll bearings, they are manufactured from oil and fuel resistant mixtures.



ELASTIC COUPLINGS

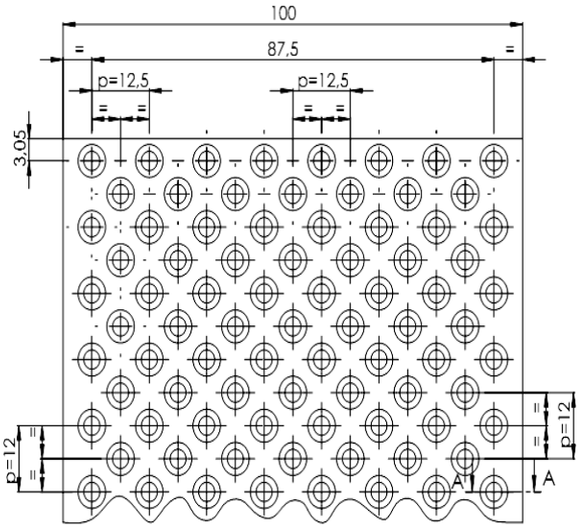
They are useful in machine building, in transmission of engine gear motion. They are oil resistant at temperatures ranging between -30 and +70°C.

RUBBER SHEETS

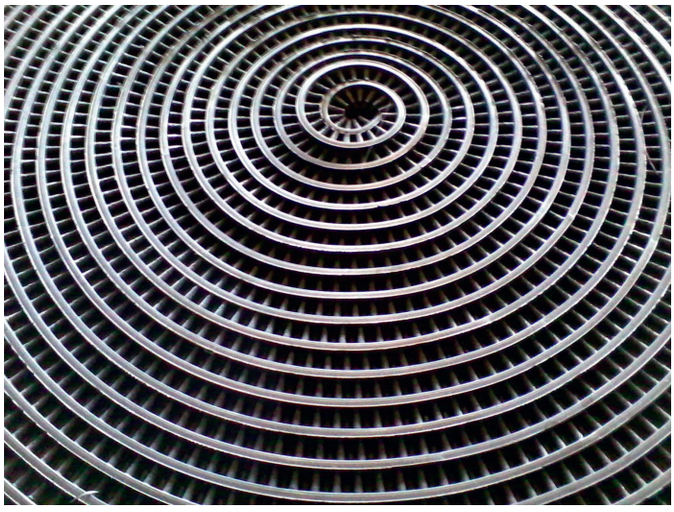
PINTLE RUBBER

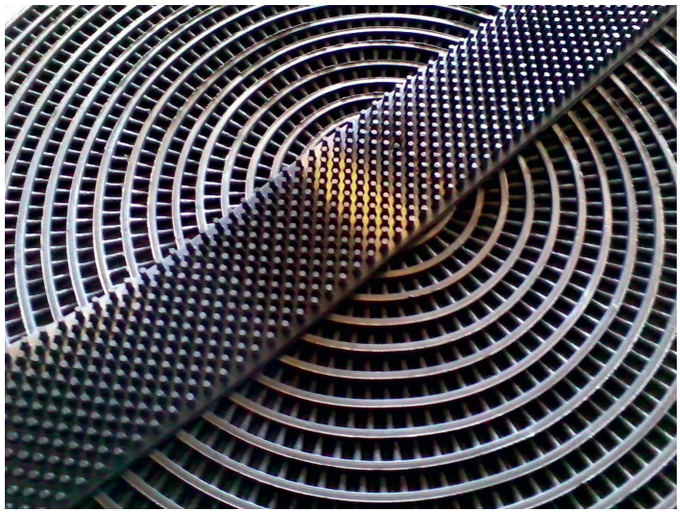
DIMENSIONS

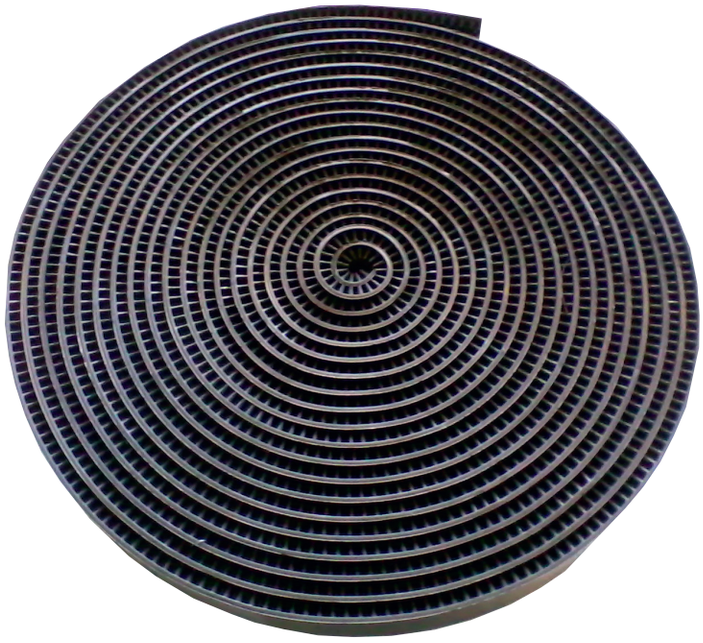
Width, mm…….. 100
Height of thorns, mm.....13
Length, mm……....costumer request
Thickness,mm……....5

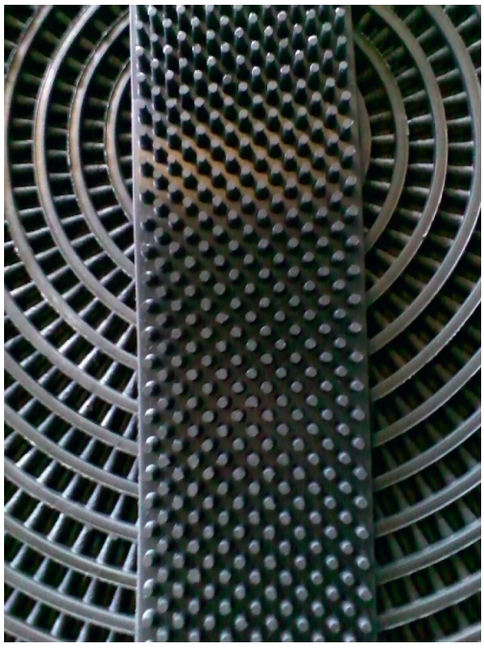


Characteristic`s name	Values	Test method
- Hardness, °Shore A	43±5	ISO 7619/2001
-Tensile strenght, kgf/cm², min	150	ISO 37/1997
-Elongation at break, %, min	450	ISO 37/1997
-Compression set(24hx70 °C), %,max	35	ISO 815 +A1/95
-Heat Aged (70h x70°C)		ISO 188/2001
-hardness change , °Sh. A	+10	
- tensile strength change, %	25	
-elongation at break change, %,	**25**	



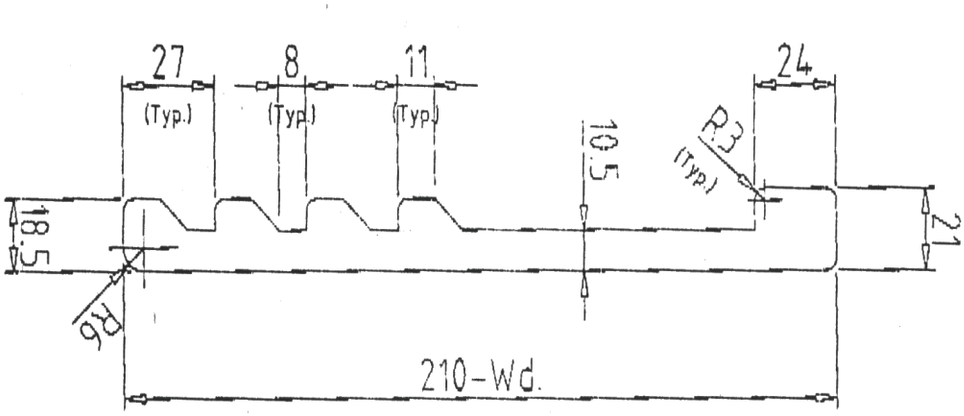






SURESEAL SMALL SKIRT RUBBER
SURESEAL LARGE SKIRT RUBBER

These kinds of products are made of Neoprene rubber mixture with a medium resistance at oil products. They are used in temperature that range between [-35...+100° C].



SURESEAL SMALL SKIRT RUBBER

SURESEAL LARGE SKIRT RUBBER

TECHNICAL RUBBER PRODUCTS

LARGEST MANUFACTURER IN ROMANIA

ARTEGO COMPANY

ARTEGO

ARTEGO's history goes back to 1975 when The Industrial Unit for Technical Rubber Items and Reclaimed Rubber was built on the Northern platform of Târgu-Jiu. At the beginning, the unit focused on recycling reclaimed rubber. As years went by, our company had already started manufacturing a wide range of products and had strengthened its economic growth.
In 1990 The Industrial Unit for Technical Rubber Items and Reclaimed Rubber became a Joint Stock Company and received the trademark name ARTEGO.

BOARD

DAVID VIOREL: BOARD CHAIRMAN, GENERAL MANAGER

ANGLITOIU FLORIAN: BOARD VICEPRESIDENT, PRODUCTION TECHNICAL MANAGER

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