GRANDRUBBER®
Engineered for Endurance



HIGH QUALITY CONVEYOR BELTS & RUBBER SHEETS, MANUFACTURED IN ACCORDANCE WITH THE REQUIREMENTS OF INTERNATIONAL STANDARDS

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GRANDRUBBER®
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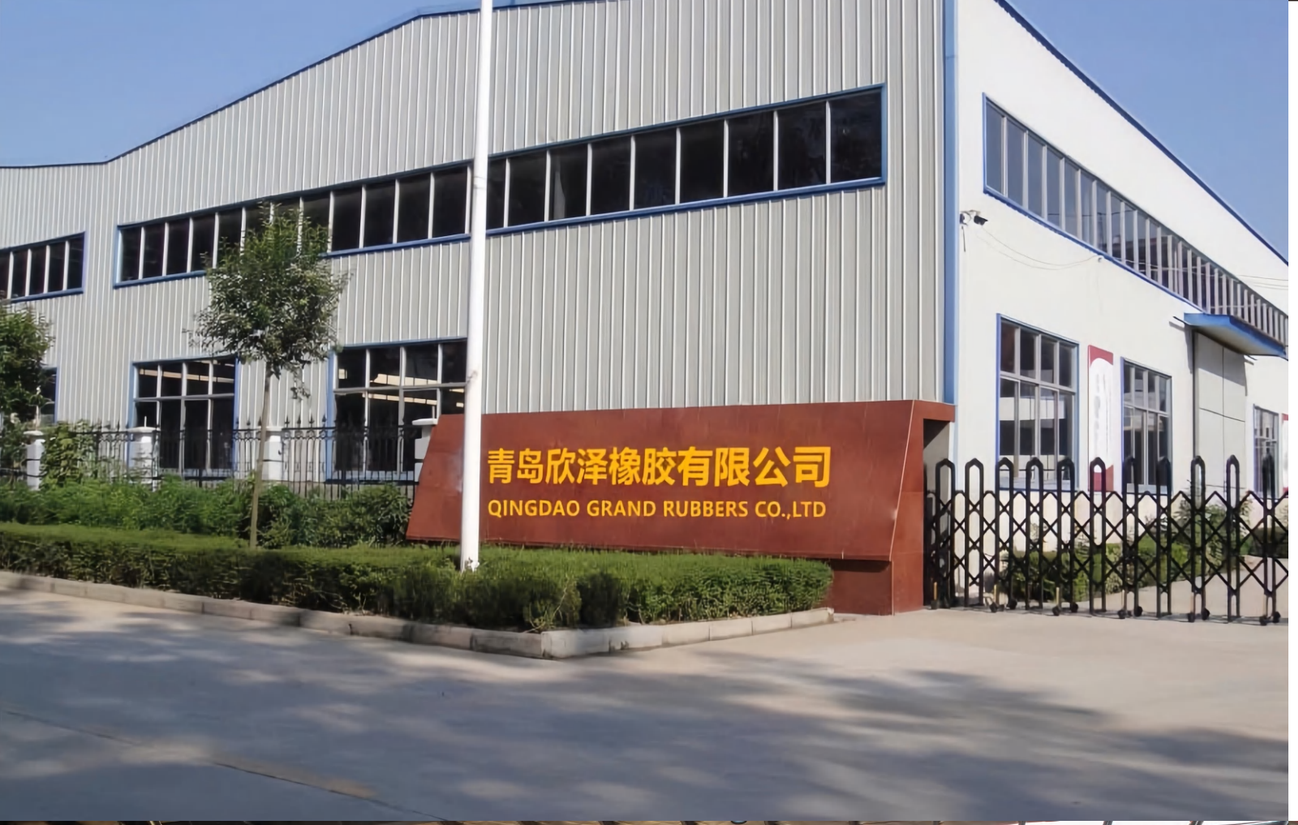
COMPANY PROFILE

Who we are:
Grand Rubbers Co., Ltd, the leading rubber products manufacturer in North China, located in Qingdao City, Shandong Province. We concentrate on providing international-class products and service in all aspects of rubber conveyor belt, rubber sheet, rubber mat, PVC/PU belt, etc.

We have established a professional ISO9001 certified Quality Control team of experienced engineers. The first-class production equipment, testing facilities and a complete quality assurance system guarantee the high quality.

Our products are heavily involved in exporting to all over the world, including Europe, America, Middle East, Southeast Asia, South Africa, Australia, etc. High quality products, excellent service and strong technical support result in us obtaining wide reaching and excellent reputation. Our expert team is happy to help customers choose the most suitable conveyor belt and rubber sheet with professional advice and recommendations.





We offer our customers:

1. A wide range of conveyor belt & rubber sheet products:
Standard type, Pipe type, Chevron type, Sidewall type, Elevator type, High strength type (NN, EP and Steel cord), Abrasion resistant, High tear resistant, Oil resistant, Chemical resistant, High temperature resistant, Cold resistant, Anti-tear, Flame resistant, Food grade, etc.
2.Competitive prices and superior quality.
3.Prompt delivery time.
4.Super warranty and service.

Application market:

Metallurgical industry, coal mines, chemical industry, electricity, light industry, power, mining, ports, etc.

Standards offered:

DIN22102, DIN22131, DIN22109, RMA, AS1332, AS1333, SANS1173, SANS1366, IS1891, BS490, JIS K6369, JIS K6322, EN ISO 15236, ISO4195, GB/T9770, GB/T7984, MT668, MT147, HG/T10822, HG/T3647, HG/T2297, etc.

Certification:

ISO9001, ISO14001, OHASA18001, FDA certification, REACH-compliant, RoHS-compliant, ASTM standard, SGS standard, etc.

20+
Over 20 years of R&D and manufacturing experience

50+
Products delivered to over 50 countries and regions

90%+
Product repurchase rate exceeds 90%

40,000.000+
Annual production capacity 40 million square meters



A Wide Variety of Conveyor Belts

STEEL CORD (ST) CONVEYOR BELT

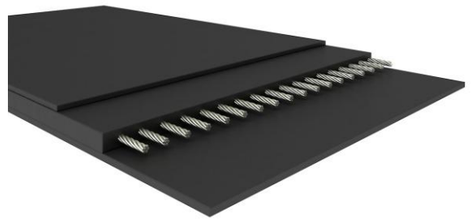


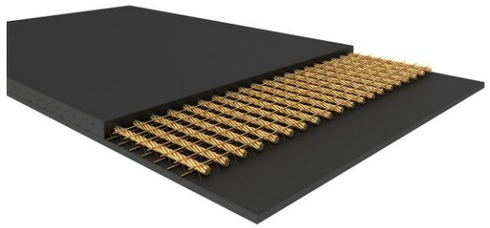
Product Use

Steel cord conveyor belt is widely used in coal, mine, port, metallurgy, electric power, chemical industry and other fields.

It is suitable for conveying massive, granular and powder materials in high-strength, long-distance and large volume situations.

Product Structure





Steel cord conveyor belt is composed of top coating layer, bottom coating layer, steel wire rope, adhesive layer and edge rubber.

Product Features

GRAND RUBBER steel cord conveyor belt has the characteristics of high tensile strength, impact resistance, good elasticity, high wear resistance, small elongation, high adhesion between rubber and steel cord, even tension of steel cord rope, good troughability, etc. It is suitable for conveying massive, granular and powdery materials in high-strength, long-distance and large traffic situations.

Executive Standard & Technical Data

Type	Standard and main technical data
Conventional	GB/T9770 DIN22131 JIS6369
Fire resistant	MT668 HG2539 DIN22131
Conventional flame retardant	HG2539 II DIN22103 DIN22131
Heat Resistant	HG/T2297 ISO4195
Abrasion resistant	DIN22131 W Shore abrasion ≤90mm³
Acid, Alkali, Oil resistant	HG4846 HG/T3714 RMA MOR OR
Cold resistant	Fragility temperature -50℃~-20℃ HG/T3647
Ozone resistant	Ozone density 50pphm 40℃ 72h no crack





Cover Rubber Property and Grades

Test Item		Property indexes						
		GB9770-2001				DIN22131		
		D	H	L	P	W	X	Y
Tensile strength	Mpa≥	18	25	20	14	18	25	20
Elongation	%≥	400	450	400	350	400	450	400
Abrasion	≤	90mm³	120mm³	150mm³	200mm³	90mm³	120mm³	150mm³
Aging test(70 ×168h) Median value of tensile strength and elongation at break	%	It shall not be less than 75% of the corresponding value before aging.						

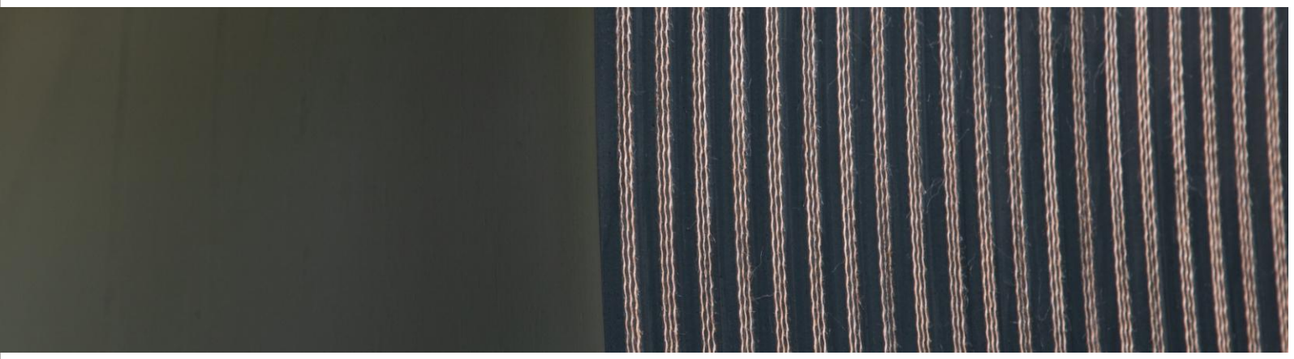
Technical Parameters for Steel Cord Belt of GB/T9770

Technical Data Specification	ST630	ST800	ST1000	ST1250	ST1600	ST2000	ST2500	ST3150	ST3500	ST4000	ST4500	ST5000	ST5400	ST6300	ST7000	ST7500
Tensile Strength(N/mm)	630	800	1000	1250	1600	2000	2500	3150	3500	4000	4500	5000	5400	6300	7000	7500
Max Diameter of Cord(mm)	3.0	3.5	4.0	4.5	5.0	6.0	7.5	8.1	8.6	8.9	9.7	10.9	11.3	12.3	13.5	15.0
Pitch of Cord(mm)	10	10	12	12	12	12	15	15	15	15	16	17	17	18	19	21
Top Cover Thickness(mm)	5	5	6	6	6	8	8	8	8	8	8	8.5	9	10	10	10
Bottom Cover Thickness(mm)	5	5	6	6	6	6	6	8	8	8	8	8.5	9	10	10	10
Weight(kg/m²)	18	19.5	22.5	24	25.9	31.8	36.1	40.4	43.8	45	45.1	50.7	53.4	59.6	63.7	68.7
Width(mm)	Cord Number															
800	75	75	63	63	63	63	50	50	50							
1000	95	95	79	79	79	79	64	64	64	64	59	55	55	54	49	45
1200	113	113	94	94	94	94	76	76	77	77	71	66	66	63	59	54
1400	133	133	111	111	111	111	89	89	90	90	84	78	78	74	69	63
1600	151	151	126	126	126	126	101	101	104	104	96	90	90	85	80	72
1800		171	143	143	143	143	114	114	117	117	109	102	102	96	90	82
2000			159	159	159	159	128	128	130	130	121	113	113	107	101	91
2200						176	141	141	144	144	134	125	125	118	111	100

Technical Parameters for Steel Cord Belt of DIN22131

Technical Data Specification		ST1000	ST1250	ST1600	ST2000	ST2500	ST3150	ST3500	ST4000	ST4500	ST5000	ST5400
Tensile Strength(N/mm)		1000	1250	1600	2000	2500	3150	3500	4000	4500	5000	5400
Max Diameter of Cord(mm)		4.1	4.9	5.6	5.6	7.2	8.1	8.6	8.9	9.7	10.9	11.3
Pitch of Cord(mm)		12	14	15	12	15	15	15	15	16	17	17
Top Cover Thickness(mm)		4	4	4	4	5	5.5	6.5	7	7.5	8	9
Width(mm)	Tolerance(mm)	Cord Number										
500	±5	39	34									
650	±7	51	44									
800	±8	64	55	50	64							
1000	±10	81	69	64	81	64	64	64	64	59	55	55
1200	±10	97	84	77	97	77	77	77	77	71	66	66
1400	±12	114	98	90	114	90	90	90	90	84	78	78
1600	±12	131	112	104	131	104	104	104	104	96	90	90
1800	±14	147	127	117	147	117	117	117	117	109	102	102
2000	±14	164	141	130	164	130	130	130	130	121	113	113
2200	±15	181	155	144	181	144	144	144	144	134	125	125

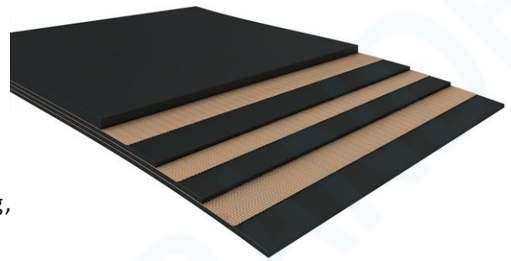
MULTI-PLY FABRIC (EP/NN) CONVEYOR BELT



Product Classification
According to whether there is edge rubber: Molded edge belt and Cut edge belt.
According to the fabric type:
Polyester(EP) conveyor belt, Nylon(NN) conveyor belt.

Product Use
It is widely used in coal, mining, port, metallurgy, electric power, chemical industry, casting, building materials, cement and other industries and places that need high-speed and fast transportation of materials, and it is used to transport non-corrosive block, granular, powder materials, bulk materials or finished articles.

Product Structure



The general purpose fabric conveyor belt is made of multi-ply rubberized nylon(NN) canvas, polyester(EP) canvas as the skeleton material, covered with coating rubber with different properties, and manufactured through calendering, molding, vulcanization and other processes.

Product Features
GRAND RUBBER Nylon(NN) belt has the advantages of light belt body, good elasticity, high strength, impact resistance and grooving. It is suitable for conveying materials in medium and long distance, large volume and high speed.

GRAND RUBBER Polyester(EP) belt has the advantages of high initial modulus, good thermal stability of belt body size, high strength, small elongation and impact resistance. It is suitable for conveying materials in medium and long distance, large volume and high speed.

Cover Rubber Property

Type	Features and application
Conventional	Generally used for power, grain and block material
Oil/Fat resistant	For oil, fat material conveying
Acid/Alkali resistant	For Ph4-10 material conveying
Heat Resistant	T1≤100°C, T2≤125°C, T3≤150°C, T4≤180°C, T5≤200°C, T6≤250°C
High temperature resistant	For 200-600℃material conveying
Flame retardant/Self extinguish	Extinguishing the flame quickly
Low temperature resistant	Cold up to -60℃
Abrasion resistant	Anti-shock, for hard and shaped material conveying

Executive Standard

China GB/T7984
US RMA
Japan JISK6322
South Africa SANS 1173
Germany DIN22102
UK EN ISO15236
Australia AS1332



Production Range

Type	Textile type	Strength per ply Min.(N/mm)	Plies of fabric	Cover thickness(mm)		Belt width (mm)	Cover grade
				Top cover	Bottom cover		
EP belt	EP-100	100	2-8	2-16	0-10	300-6500	General type Abrasion resistant Impact resistant Heat resistant Oil resistant Acid/alkali resistant Fire resistant Cold resistant Etc.
	EP-125	125					
	EP-150	150					
	EP-200	200					
	EP-250	250					
	EP-300	300					
	EP-350	350					
	EP-400	400					
	EP-500	500					
NN belt	NN-100	100	2-10				
	NN-125	125					
	NN-150	150					
	NN-200	200					
	NN-250	250					
	NN-300	300					
	NN-400	400					
	NN-500	500					

Main Technical Parameters

Item			Type		
			NN、EP		
Adhesion strength	Between coating and belt cores	Thickness of coating layer＞1.5mm	≥4.5 N/mm		
		Thickness of coating layer 0.8~1.5mm	≥3.5 N/mm		
	Between layers		≥5 N/mm		
Tensile strength value of full thickness belt			160 ~ 3150N/mm		
Elongation of longitudinal reference force of full thickness belt			≤ 4 %		
Coating performance			H (sharp wear)	D (high wear)	L (moderate wear)
	Breaking strength		≥24MPa	≥18MPa	≥15MPa
	Elongation at break		≥450%	≥400%	≥350%
	Abrasion		≤120mm³	≤100mm³	≤200mm³
	Aging test(70℃×168h) Median value of tensile strength and elongation		It shall not be less than 75% of the corresponding value before aging.		

Main Technical Parameters of International Standards

Standard	DIN 22102				AS1332、AS1333						SANS1173、SANS1366				
Grade	W	X	Y	Z	A	E	F	M	N	S	F	A	C	M	N
Breaking strength MPa≥	18	25	20	15	17	14	14	24	17	14	14	18	20	25	17
Elongation at break %≥	400	450	400	350	400	300	300	450	400	300	400	400	400	450	400
Abrasion mm³≤	90	120	150	250	70			125	200	250	180	70	150	120	150

CHEVRON(PATTERNED) CONVEYOR BELT



Product Classification

According to the pattern shape, it can be divided into: chevron shaped, opening V-shaped, closing V-shaped, U-shaped, multi-V and other complex pattern structure.

The height of the pattern is 5mm, 6mm, 8mm, 10mm, 15mm, 17mm, 20mm, 25mm, 32mm. The belt width is 300-1800 mm. The pattern shape can be specially designed according to customer's requirement.





Product Use

When the incline angle of conveyor belt is large to convey the material easy to slip. Now we should be using chevron belt.

Chevron belts in varying designs are widely used for handling a wide range of materials at moderate inclinations. These can include bulk materials such as crushed minerals, sand, coal, wood chips, grain, fertilizer, as well as sacks and packages.

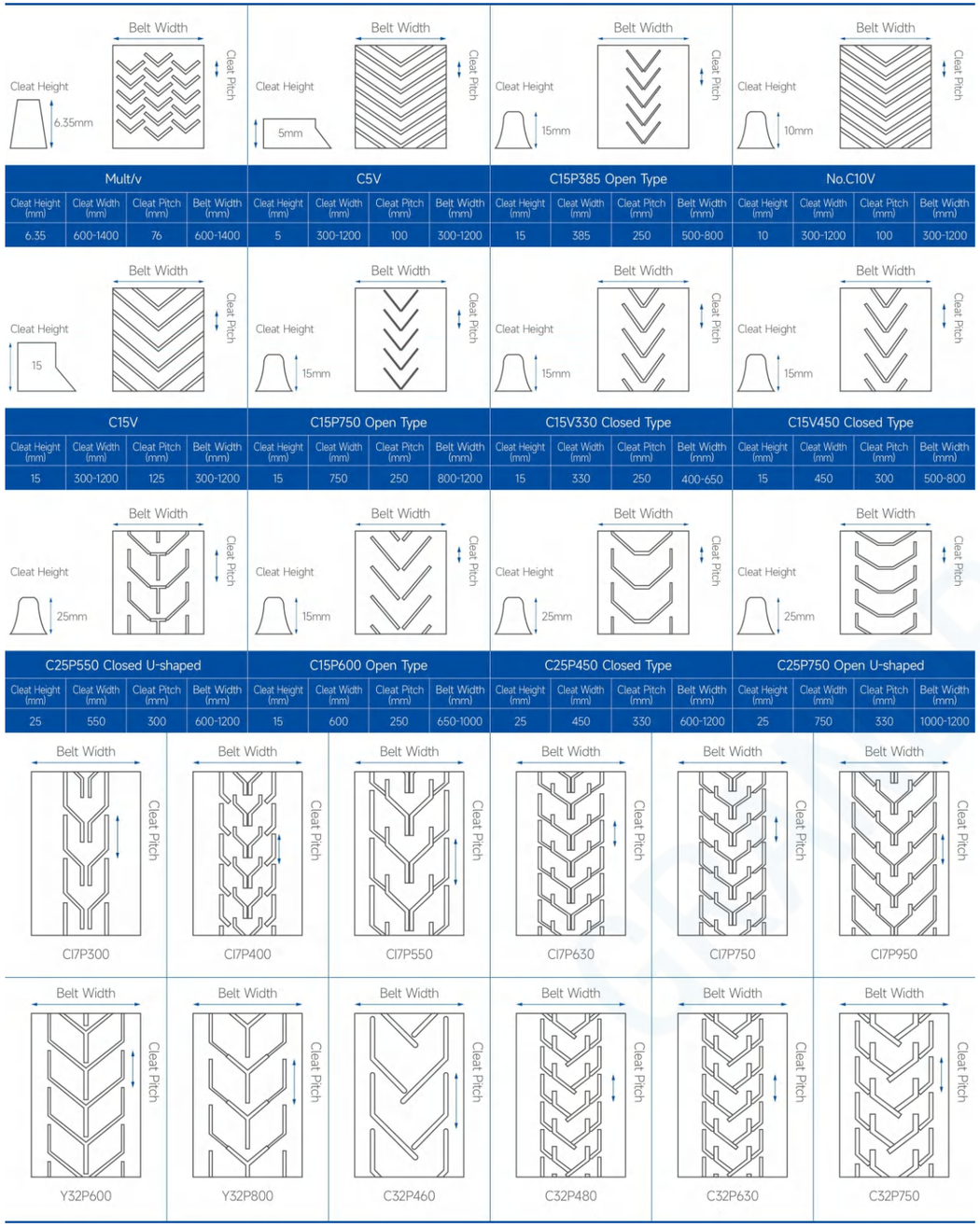
The Max. conveyor angle can reach 28° when convey the ball material. The Max. conveyor angle can reach 35° when convey the soft packing material, the bulk and package material are conveyed up to 40°

Product Features

Large convey angle, not easy to slip.

The product with different types of patterns are suitable for different material conveying, it can be chosen according to actual needs.

The pattern and base belt are formed by hot vulcanized at one time, with high bonding strength.



Mult/v				C5V				C15P385 Open Type				No.C10V			
Cleat Height (mm)	Cleat Width (mm)	Cleat Pitch (mm)	Belt Width (mm)	Cleat Height (mm)	Cleat Width (mm)	Cleat Pitch (mm)	Belt Width (mm)	Cleat Height (mm)	Cleat Width (mm)	Cleat Pitch (mm)	Belt Width (mm)	Cleat Height (mm)	Cleat Width (mm)	Cleat Pitch (mm)	Belt Width (mm)
6.35	600-1400	76	600-1400	5	300-1200	100	300-1200	15	385	250	500-800	10	300-1200	100	300-1200

C15V				C15P750 Open Type				C15V330 Closed Type				C15V450 Closed Type			
Cleat Height (mm)	Cleat Width (mm)	Cleat Pitch (mm)	Belt Width (mm)	Cleat Height (mm)	Cleat Width (mm)	Cleat Pitch (mm)	Belt Width (mm)	Cleat Height (mm)	Cleat Width (mm)	Cleat Pitch (mm)	Belt Width (mm)	Cleat Height (mm)	Cleat Width (mm)	Cleat Pitch (mm)	Belt Width (mm)
15	300-1200	125	300-1200	15	750	250	800-1200	15	330	250	400-650	15	450	300	500-800

C25P550 Closed U-shaped				C15P600 Open Type				C25P450 Closed Type				C25P750 Open U-shaped			
Cleat Height (mm)	Cleat Width (mm)	Cleat Pitch (mm)	Belt Width (mm)	Cleat Height (mm)	Cleat Width (mm)	Cleat Pitch (mm)	Belt Width (mm)	Cleat Height (mm)	Cleat Width (mm)	Cleat Pitch (mm)	Belt Width (mm)	Cleat Height (mm)	Cleat Width (mm)	Cleat Pitch (mm)	Belt Width (mm)
25	550	300	600-1200	15	600	250	650-1000	25	450	330	600-1200	25	750	330	1000-1200

Note: We have a large number of pattern molds, and the ones shown above are just some of them. If you have any needs, please inquire.

HEAT RESISTANT CONVEYOR BELT



Product Use

Heat resistant conveyor belt is mainly used in metallurgy, cement, casting, electric power, building materials, chemical industry and other fields, mainly used to transport high temperature materials such as sinter, coke, steel castings, cement clinker, etc.

Product Classification

According to using temperature:

Grade 1: can withstand the test temperature of no more than 100 ℃, code T1;

Grade 2: can withstand the test temperature of no more than 125 ℃, code T2;

Grade 3: can withstand the test temperature of no more than 150 ℃, code T3;

Grade 4: can withstand the test temperature of no more than 180 ℃, code T4;

Others: For higher temperatures more than 180℃, please contact us for customization according to on-site conditions.

Product Features

The strength material of GRAND RUBBER heat resistant belt is EP fabric of high modulus and low shrinkage. The cover compound consists of modified SBR or EPDM. These make the belt have good thermal stability, that can be used widely to carry hot materials with surface temperature of 100-400℃ in steel plants, cement, coke glass plants and other industries.

Technical Data for Heat Resistant Belt

Item			T1	T2	T3	T4
Coating performance	Hardness(IRHD)	Initial value change	+20			
		Maximum after aging	85			
	Breaking strength (N/mm)	Initial value change rate	−25	−30	−40	−40
		Minimum after aging	12	10	5	5
	Elongation at break (%)	Initial value change rate	−50		−55	
		Minimum after changing	200		180	

OIL RESISTANT CONVEYOR BELT



Product Use
Oil resistant conveyor belt is mainly used to transport bulk, granular, powder materials or finished articles with oil or working at oily sites.

Product Structure
The oil resistant conveyor belt is made of multi-ply rubberized nylon(NN) canvas or polyester(EP) canvas as the skeleton material, covered with the coating rubber with oil resistant performance, and manufactured through calendering, molding, vulcanization and other processes.

Product Features
GRAND RUBBER oil resistant conveyor belt has the characteristics of high strength, small elongation, wear resistance, oil resistance, aging resistance, long service life, etc

Main Technical Parameters

Item			Type	
			NN、EP	
Adhesion strength	Between coating and belt cores	Thickness of coating ＞1.5mm	≥4.5 N/mm	
		Thickness of coating 0.8~1.5mm	≥3.5 N/mm	
	Between layers		≥5 N/mm	
Tensile strength value of full thickness belt			160 ~ 3150N/mm	
Elongation of longitudinal reference force of full thickness belt			≤ 4 %	
Coating performance			D (high wear)	L (moderate wear)
	Breaking strength		≥12MPa	≥14MPa
	Elongation at break		≥350%	≥350%
	Abrasion		≤250mm³	≤200mm³
	Soaking temperature100±2℃ Soaking time22±0.25h Volume change rate		≤+100%	≤+50%

CHEMICAL (ACID/ALKALI) RESISTANT CONVEYOR BELT



Product Use
Acid & alkali resistant conveyor belt is suitable for chemical plant, chemical fertilizer plant, paper mill and other enterprises to transport bulk, granular and powder materials or finished articles containing acid or alkali.

Product Structure
Acid & alkali resistant conveyor belt is made of multi-ply rubberized nylon(NN) canvas or polyester(EP) canvas as framework material, covered with acid and alkali resistant coating rubber, and manufactured through calendering, molding, curing and other processes.

Product Features
This product has good characteristics of chemical corrosion resistance, good physical properties, acid and alkali resistance, wear resistance, etc.

Main Technical Parameters

Item			Type
			NN、EP
Adhesion strength	Between coating and belt cores	Thickness of coating ＞1.5mm	≥4.5 N/mm
		Thickness of coating 0.8~1.5mm	≥3.5 N/mm
	Between layers		≥5 N/mm
Longitudinal tensile strength value of full thickness belt			160 ~ 3150N/mm
Elongation of longitudinal reference force of full thickness belt			≤ 4 %
Coating performance		Value before aging	55-70
		Value after aging	75-85
		Value before aging	≥15MPa
		Value after aging	≥12MPa
		Value before aging	≥400%
		Value after aging	≥200%
	Abrasion		≤200mm³

Test conditions: ozone concentration (50 ± 5)× 10^{-8} (volume fraction), temperature (40 ± 2)°C, elongation (20 ± 2)%, time 15h, ozone aging test results shall be free of cracks.

Immersion solution: 18% hydrochloric acid (HCl), 50% sulfuric acid (H2SO4), 48% sodium hydroxide (NaOH) immersion conditions: temperature × time 50℃ × 96h
Volume expansion rate before and after immersion + 10%.

FLAME RETARDANT (SELF-EXTINGUISHING) BELT (FABRIC)



Product Classification
According to the framework material:
Nylon(NN) fabric flame retardant conveyor belt Polyester(EP) fabric flame retardant conveyor belt

Product Use
It is widely used in coal, mining, port, metallurgy, electric power, chemical industry, casting, building materials and other industries and places. It is especially suitable for material transportation in surface coal washing plant, power plant and non coal underground mining. It is used to transport non corrosive bulk, granular and powder materials, bulk materials or finished articles.

Product Features
Nylon(NN) canvas core flame-retardant conveyor belt has the advantages of light weight, good elasticity, high strength, impact resistance and grooving. It is suitable for conveying materials in medium and long distance, large volume and high speed. Polyester(EP) canvas core flame retardant conveyor belt has high initial modulus, good thermal stability of belt body size, high strength, small elongation and impact resistance, which is suitable for conveying materials in medium and long distance, large volume and high speed.

Main Technical Parameters

Item			Type	
			NN、EP	
Adhesion strength	Between coating and belt cores	Thickness of coating ＞1.5mm	≥4.5 N/mm	
		Thickness of coating 0.8~1.5mm	≥3.5 N/mm	
	Between layers		≥5 N/mm	
Tensile strength value of full thickness belt			160 ~ 3150N/mm	
Elongation of longitudinal reference force of full thickness belt			≤ 4 %	
Coating performance			D (high wear)	L (moderate wear)
	Breaking strength		≥18MPa	≥14MPa
	Elongation at break		≥450%	≥400%
	Abrasion		≤175mm³	≤200mm³
	Aging test(70℃×168h) Median value of tensile strength and elongation		It shall not be less than 75% of the corresponding value before aging.	

Safety Performance Technical Parameters

Item	Flame retardant(self-extinguishing) grade	
	K2	K3
Fire duration	The total flame duration of 6 samples with coating shall not be more than 45s, and any single value shall not be more than 15s.	The average value of flame duration of 3 samples with coating shall not be more than 60s.
Anti-static	No more than 3×10^8 Ω	
Reflameability	No flame shall appear again on any samples	

FLAME-RETARDANT CONVEYOR BELT (STEEL CORD)

Product Features

- Small Elongation
- High Tensile Strength
- Small Pulley Diameter Required
- Excellent Flexing and Fatigue Resistance
- Reliable Adhesion
- Good Troughability
- Uniform Tension of Steel Cord
- X-ray Inspection Available during Operation

Product Use

Steel cord flame-retardant conveyor belts are applicable for long-distance, heavy-duty, large-volume and high-angle applications in underground mines and power plants, etc.

Rubber Property

Tensile Strength: ≥15 MPa Elongation at Break: ≥350% Abrasion Loss: ≤200 mm³

Aging Test (70°C × 168 h): Change of Tensile Strength ±25% / Change of Elongation at Break ±25%

Safety Performance Technical Parameters

Item	Test condition	Requirement
Anti-static	Cover Surface Average Resistance	≤3×10^8 Ω
Pulley Friction	Pulley Surface Temperature	≤325°C
	Specimen free from any flame and combustion	
Alcohol Burner Testing (flame or flameless combustion)	With covers: average self-extinguishing time of 6 specimens	≤3 s
	With covers: self-extinguishing time of any specimen	≤10 s
	Covers removed: average self-extinguishing time of 6 specimens	≤5 s
	Covers removed: self-extinguishing time of any specimen	≤15 s
Propane Burner Testing	Length of Not Burned	≥600 mm

Item	K1	K2	K3
Flame Duration	Total flame duration of 3 specimens with and without covers ≤45 s; any specimen with covers ≤15 s; any specimen without covers ≤20 s.	Flame duration of 6 specimens with covers ≤45 s; any specimen ≤15 s.	Average flame duration of 3 specimens with covers ≤60 s.
Anti-static	≤3×10^8 Ω		
Re-flaming	Any specimen free from flaming again		

COLD RESISTANT CONVEYOR BELT



Product Use
Cold resistant conveyor belt is mainly used for conveying materials in cold areas, such as open air or refrigerated warehouses under -60℃~+50℃.

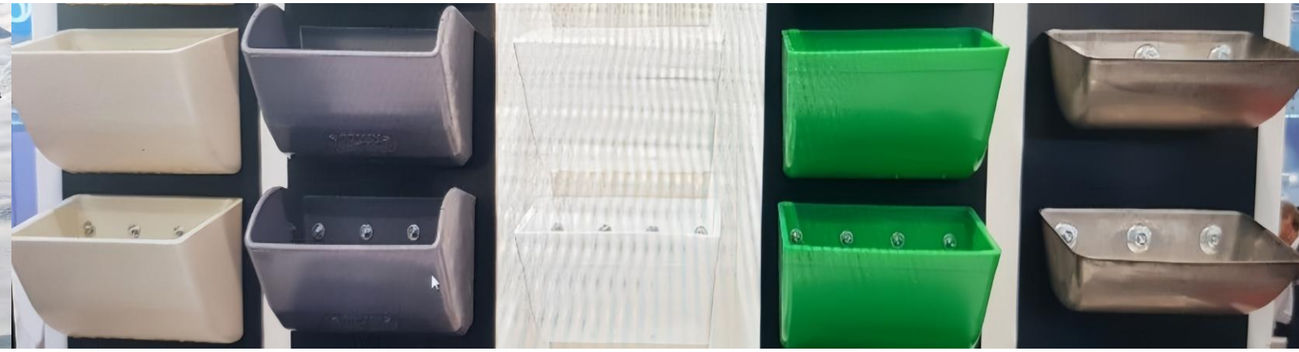
Product Structure
The cold resistant conveyor belt is made of multi-ply rubberized nylon canvas and EP canvas as the skeleton material, covered with cold resistant coating rubber, and made by calendering, molding, curing and other processes.

Product Features
This product has the characteristics of cold resistance, high elasticity, impact resistance, wear resistance, etc. It can be used normally under -60°C.

Main Technical Parameters

Item			Type		
			NN、EP		
Adhesion strength	Between coating and belt cores	Thickness of coating layer＞1.5mm	≥4.5 N/mm		
		Thickness of coating layer 0.8~1.5mm	≥3.5 N/mm		
	Between layers		≥5 N/mm		
Longitudinal full thickness tensile strength value of belt			160 ~ 3150N/mm		
Longitudinal elongation at break of full thickness of belt			≥ 10 %		
Elongation of longitudinal reference force of full thickness belt			≤ 4 %		
Coating performance			H (sharp wear)	D (high wear)	L (moderate wear)
	Breaking strength		≥24MPa	≥18MPa	≥15MPa
	Elongation at break		≥450%	≥400%	≥350%
	Aging test (70 ℃× 7D) Change rate of tensile strength Change rate of elongation at break		±25%		
	Abrasion		≤120mm³	≤100mm³	≤200mm³
	Tensile cold resistance coefficient	C1 (-45℃) applicable environment temperature -45℃ ~ +50℃	≤0.3		
		C2 (-50℃) applicable environment temperature -60℃ ~ +50℃	≤0.2		

BUCKET ELEVATOR BELT



Product Use
Suitable for conveying material vertically, widely used in building, cement, mining, chemical, light industry, power station and grain industry, etc.

Product Features
GRAND RUBBER bucket elevator belt has the characteristics of small elongation, large conveying capacity, stable operation, convenient maintenance, and good adaptability to bulk materials.
Bucket elevator belt is completely different from the traditional steel cord belt in terms of thickness, steel wire density, warp and weft arrangement, steel wire thickness, etc.
This belt forms a steel skeleton in the vertical and horizontal directions, so it can ensure the safe connection of the hopper and the balanced load distribution.
Our belt is punched by machinery or rhinestones, and the holes have been drilled before leaving our factory. The use effect shows that this special steel wire tape can meet the large conveying volume, ultra-high usage requirements.

Bucket Elevator Belt Components
We provide customers with matching high-quality bucket elevator belt components, such as ordinary and reinforced aluminum alloy joint clamps, bolts, rubber gaskets, and buckets, etc.







Main Technical Parameters

Bucket width (mm)		250	315	400	500	630	800	1000	1250	1400	1600
Bucket volume(L)		5	6. 5	14.6	18	29	37	58	73	99	114
Conveying Capacity m³/h	Φ100%	85	117	225	280	450	570	950	1255	1547	1780
	Φ75%	63	88	168	210	338	428	712	941	1160	1335
Lifting height(m)		＞100	＞100	＞100	＞120	＞120	＞120	＞130	＞130	＞130	＞130

Notes: 1. The bucket volume is the volume when taking water, Φ is the material filling ratio.
2. The maximum lifting height is the center distance between the head shaft and the tail shaft.

WHITE(FDA FOOD GRADE) CONVEYOR BELT



Product Use
White rubber conveyor belt is mainly used to transport light colored materials or finished articles with block, granular and powder shape.

Product Structure
The white rubber conveyor belt is made of multi-ply impregnated nylon fabric or EP fabric as the skeleton material, with white adhesive, covered with white coating rubber, and processed by calendering, molding, vulcanization and other processes.



Product Features
GRAND RUBBER white conveyor belt has the characteristics of light, clean and pollution proof.

R&D History
GRAND RUBBER entered the research and development stage in 2018 and successfully developed 21 formulas, including Oil-resistant, Anti-static grades, etc. It has also passed the food and drug safety testing of the US FDA, German LFGB, EU CE and other countries. The trial production was successful in 2019 and has received unanimous praise from domestic and foreign customers. Currently, the products are mainly exported to the United States, the United Kingdom, France, Australia, Germany, South Korea, Japan and other countries.







SGS

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QINGDAO GRAND RUBBERS CO.,LTD
ECONOMIC DEVELOPMENT ZONE QINGDAO CITY SHANDONG PROVINCE

The following sample(s) was/were submitted and identified on behalf of the clients as : WHITE FOOD GRADE RUBBER CONVEYOR BELT

SGS Job No. :	QDHL1704007599CW - QD
Manufacturer:	QINGDAO GRAND RUBBERS CO.,LTD
Country of Origin :	CHINA
Date of Sample Received :	13 Apr 2017
Testing Period :	13 Apr 2017 - 19 Apr 2017
Test Requested :	Selected test(s) as requested by client.
Test Method :	Please refer to next page(s).
Test Results :	Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
FDA 21 CFR 177.2600- Total extractives	PASS

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Qingdao Branch

Wang Bo, Clare
Approved Signatory
The results shown in this test summary refer only to the sample(s) tested, and for clients internal use only.

PIPE CONVEYOR BELT



Product Classification
According to the types of carcass: Nylon(NN) fabric core pipe conveyor belt, Polyester(EP) fabric core pipe conveyor belt, steel cord pipe conveyor belt.

Product Use
It is widely used in coal, mining, electric power, metallurgy, building materials and grain which have strict requirements on environmental protection and three-dimensional space bending requirements of materials transport. When working, the belt changes from a flat surface to a U-shape, and finally becomes pipe shape, which encloses the material and finally closed transportation.

Product Structure
GRAND RUBBER high wear-resistant pipe conveyor belt is made of multi-ply impregnated nylon canvas, EP canvas, Steel cord as the skeleton material, covered with high strength, good elasticity, excellent wear-resisting performance, heat resistance and ozone aging resistance coating rubber. It is completed after calendering, molding, vulcanization and other processes.

Product Features
GRAND RUBBER pipe high wear-resisting conveyor belt has the advantages of flexual resistance, impact resistance, high adhesion, sealed material transport, material and environment double protection, large dip angle transport, transport inclination angle usually up to 30 degrees, transport line can be arranged according to the spatial curve. High wear-resisting pipe conveyor belt is a novel and environmentally friendly conveyor belt, which is completely different from the traditional conveyor belt. When conveying materials, it can form a round pipe shape and operate in a closed state, so that the materials will not fall, fly, pollute the environment, and be safe and healthy.

Physical Performance Category of Coating Rubber

Performance class of coating rubber	Tensile Strength	Elongation at break	Abrasion	Ozone Resistant	The tensile strength and elongation at break's change rate after aging %
D	≥18MPa	≥400%	≤90mm³	No cracking	-25~+25
H	≥24MPa	≥450%	≤120mm³	No cracking	-25~+25
T1、T2	≥10MPa	≥300%	≤200mm³		-45~+45
A. Ozone resistant test condition: concentration (50±5)*10^{-8} (volume fraction), temperature (40±2)°C, elongation(20±2)%, time 96h. B. Hot air ageing test condition: D and H type pipe conveying belt 70℃ * 168 h: T 1 type pipe conveying belt 100℃ * 168h: T2 type pipe conveying belt 125℃ * 168h.					
Note: D—High Abrasion; H—Anti-tear; T1—Heat Resistant under 100°C; T2—High Resistant under 125°C.					

Technical Parameters of Pipe Belt with EP/NN Fabric Core

Fabric Core EP/NN(N/mm)	400	500	630	800	1000	1250	1600	2000
Nominal pipe diameter(mm)	150	200	250	300	350	400	500	600
Belt width(mm)	650（550）	750	1000（950）	1100（1150）	1300	1600（1650）	1800	2200

Technical Parameters of Pipe Belt with Steel Cord

Type	ST 630	ST 800	ST 1000	ST 1250	ST 1600	ST 2000	ST 2500	ST 3150	ST 3500	ST 4000	ST 4500	ST 5000	ST 5400
Steel cord dia	3.0	3.5	4.0	4.5	5.0	6.0	7.2	8.1	8.6	9.1	9.7	10. 9	11. 3
Top cover	5	5	6	6	6	8	8	8	8	8	8	8. 5	9
Bottom cover	5	5	6	6	6	6	6	8	8	8	8	8. 5	9
Width(mm)													
780	73	73	61	61	61	61	49	49					
1000	95	95	79	79	79	79	64	64	64	64	59	55	55
1100	105	105	87	87	87	87	71	71	71	71	65	61	61
1300	124	124	103	103	103	103	83	83	83	83	77	71	71
1530	145	145	121	121	121	121	98	98	98	98	90	84	84
1900			151	151	151	151	122	122	122	122	115	106	106
2250						180	144	144	144	144	137	127	127
2650						213	172	172	172	172	162	151	151

DRUM VULCANIZATION THIN CONVEYOR BELT



Product Classification
According to the structure:
1.Single layer fabric core structure thin belt;
2.Single bare fabric core structure conveyor belt;
3.Double bare fabric core structure conveyor belt;
4.Fabric core conveyor belt with cloth rubber surface

Product Use
For the transportation of light materials.

Product Structure
It is composed of single-layer fabric core or multi-ply fabric core as the skeleton, or one side of non working face is not covered with glue, or both sides of working face and non working face are not covered with glue, or special fabric is used on the rubber coating surface to form fabric grain surface, respectively forming single-layer fabric core structure thin belt, single bare fabric core structure conveyor belt, double bare fabric core structure conveyor belt and fabric grain rubber surface fabric core conveyor belt.

Product Features
Single layer fabric core structure, or one side of the non working face is not covered with glue, or both sides of the working face and the non working face are not covered with glue, or special purpose conveyor belts such as fabric grain surface are formed by using special canvas on the rubber coating surface.





ARAMID CONVEYOR BELT

Product Features

Aramid conveyor belts combine high-strength, light reinforcement with a variety of cover materials to enable them for a broad range of applications.

- Low energy consumption
- Excellent impact resistance
- High-temperature resistant
- Flame-retardant
- Corrosion-resistant
- Long service life

Specifications

Model	Min. Tensile Strength (N/mm)	10% Load Elongation	Cover Standard	Belt Thickness (mm)	Belt Weight (kg/m²)
DPP800	800	0.5%	6+2	11.5	11.0
DPP1000	1000	0.5%	6+2	11.5	11.1
DPP1250	1250	0.5%	6+2	11.6	11.3
DPP1600	1600	0.5%	6+3	12.0	12.9
DPP1800	1800	0.5%	6+3	12.3	13.1
DPP2000	2000	0.5%	8+3	14.5	15.9
DPP2250	2250	0.5%	8+3	14.5	16.1
DPP2500	2500	0.5%	8+3	14.6	16.3
DPP3150	3150	0.5%	8+3	16.3	17

Main Rubber Types

- Oil Resistant
- Heat Resistant
- High Abrasion-resistant
- Normal Abrasion
- Acid & Alkali Resistant
- Flame Retardant
- Cold Resistant

CORRUGATED SIDEWALL CONVEYOR BELT



Product Use

Sidewall belt is widely used for bulk material lifting in harbor, metallurgy, tunneling, power plant, chemical industry, cement and metro, etc. The conveying capacity can be reached to 6000 m³/h.

Product Features

1.Steep incline conveying from 0 to 90 degree.
2.No transfer points.
3.No spillage with steep angle conveying.
4.Maximum utilization of space.
5.Minimum maintenance, long belt Life.
6.Wide range of materials can be handled.
Sidewall belts require a certain tensile strength and abrasion resistance. For belt has to have enough cross rigidity and flexibility longitudinally to meet up with the requirement of deflection part of conveyor. The special designed base belt with cross rigidity solved the problem of belt deformation. The belt standards are in accordance with international standards.

Main Rubber Types

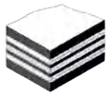
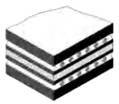
Abrasion Resistant
Heat Resistant 100/125/150/180°C
Flame Retardant (Self-extinguishing)
High/Moderate Oil Resistant
Cold Resistant
Acid & Alkali Resistant
Other Customized Types







Cross-stabilising Base Belt

Base belt type	Strength (N/mm)	Cover thickness (mm)	Weight (kg/m²)	Min pulley dia (mm)
 XE	250/2	2:2	9.40	200
	400/3	4:2	13.50	315
	500/3	4:2	13.75	400
	630/4	4:2	15.20	500
	800/5	4:2	16.85	630
 XE+2	400/3+2	4:2	12.10	315
	500/3+2	4:2	12.60	400
	630/4+2	4:2	14.40	500
	800/5+2	4:2	16.10	630
	1000/5+2	4:2	17.80	800
	1250/5+2	4:2	18.25	1000
 XE-SC+2	315/2+2	4:2	13.70	315
	400/3+2	4:2	14.80	315
	500/3+2	4:2	15.20	400
	630/4+2	4:2	16.70	500
	800/5+2	4:2	18.00	630
	1000/5+2	4:2	19.50	800
	1250/5+2	4:2	21.40	1000
 XST-SC	1600	8:8	Please Inquire	1250
	2000	8:8		1250
	2500	8:8		1400
	3150	8:8		1400
	3500	8:8		1600
	4500	8:8		1600

The above are standard heights, non-standard is available, please inquire.

Type “XE”
This belt incorporates the cross-stabilising ply in the tensioning ply, mainly used for medium duty application.

Type “XE+2”
The cross-stabilising ply and tensioning plies are separate, in this case the belt has 2 cross -stabilising plies, application areas are medium to heavy.

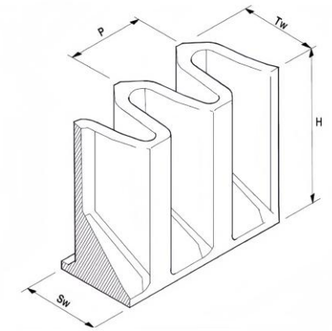
Type “XE-SC+2”
This belt incorporates textile tensioning plies with steel cord cross-stabilising layers.
The high lateral stiffness means the belt can be used in application areas where rigidity is an important factor, i.e. high lift heights and wide belts.

Type “XST-SC”
This belt incorporates steel cord tensioning with steel cord cross-stablising layers.
High tensile strength can be achieved making the belt ideal for high vertical lift applications.

Sidewall Specification

GRAND RUBBER sidewall design ensures maximum flexing without fatigue and allows for high compression to ensure smooth inner deflection around small radii.
Another important design feature is that the sidewalls can be pressed form both sides when being applied to the base belt, this offers much higher bond strengths and security.
Diagonal fabric insertion gives excellent tear resistance and also allows the sidewall to flex more easily.
Dynamic fatigue tested rubber compound ensure maximum flexibility along with high abrasion resistant and high tensile strength and provide additional resistances where needed.

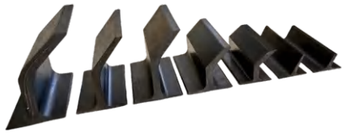




Type	H (mm)	Sw (mm)	Tw (mm)	P (mm)	Weight (kg/m)	Min Pulley Din (mm)
S	40	30	20	25	0.45	125
	60	50	45	40	1.38	160
	80	50	45	40	1.70	200
	100	50	45	40	2.00	250
	120	50	45	40	2.65	315
MDSF	120	75	65	63.5	3.20	315
	160	75	65	63.5	4.20	400
	200	75	65	63.5	5.02	500
	240	75	65	63.5	7.50	630
	250	75	65	63.5	7.80	630
	280	75	65	63.5	8.70	800
	300	75	65	63.5	9.40	800
HHDF	300	100	90	83	10.10	800
	400	100	90	83	14.80	1000
	500	105	95	89	19.10	1250

Cleat Specification

GRAND RUBBER cleats have been specifically design to give optimum performance. The C-type and TC-type cleat design has been created to offer the best conveying capacities along with excellent self-cleaning properties. GRAND RUBBER cleats are molded with features of strong stiffness abrasion resistant and impact resistance to give the best shape retention even when conveying high-density materials.



Cleat Type	Height (mm)	Base Width (mm)	Weight (kg/m)	Min Pulley Din (mm)
 C	55	100	1.45	125
	75	100	2.00	150
	90	110	2.81	250
	110	110	3.27	315
 T	55	100	1.61	125
	75	100	2.20	150
	90	110	2.70	250
	110	110	3.23	315
	140	160	5.49	400
	180	160	6.67	500
	230	160	8.60	630
 TC	55	75	1.13	125
	75	100	1.82	150
	90	110	3.22	250
	110	110	3.94	315
	140	150	5.49	400
	180	150	6.81	500
	230	160	8.68	630
	280	180	14.90	800
 TCS	230	160	13.80	630
	280	160	15.30	800
	360	230	22.80	1000
	470	230	30.80	1250

GRAND RUBBER cleats form 110mm and higher have special diagonal fabric reinforcement in the vertical and angled parts, but smaller cleats can have this feature when required.

Our Sidewall Belt Advantages

1.Hot vulcanization

GRAND RUBBER sidewall belting is assembled by hot vulcanization technology, which achieves super high adhesion value, non-fall off. The adhesion won't be influenced by high temperature material.

Production Process	Traditional Cold Bonding	Hot Vulcanizing Assembly
Adhesion	<10N/mm	>17N/mm

2.Production Range



Base belt width: 300-2400mm
Sidewall height: 40-630mm
Cleat height: 35-600mm
Belt strength: 250-7500N/mm

3.Various types of rubber compounds

We have a wide range of types of rubber compounds to meet varying requirement for handing all sorts of materials.

4.Automatic buffing machines ensure accurate & excellent buffing result

All GRAND RUBBER base belt, sidewall and cleat are totally buffed by our patent buffing machines. Excellent buffing result ensures better adhesive strength.



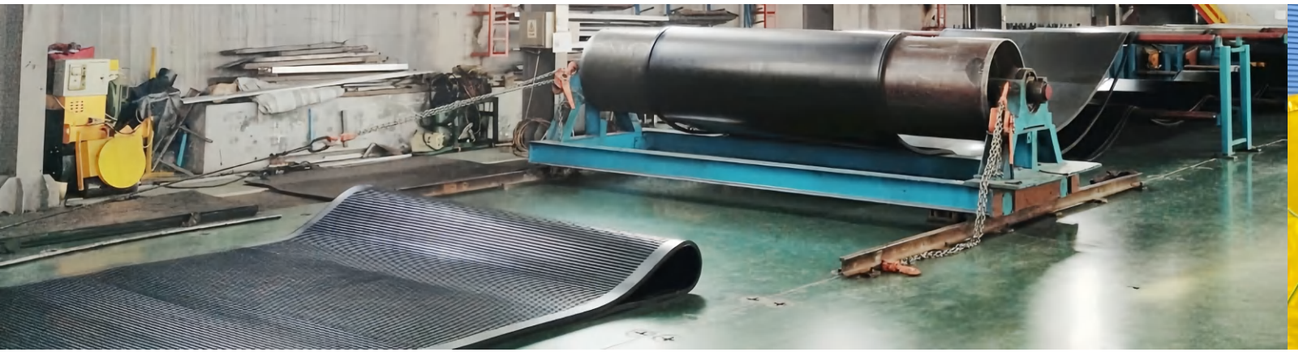
5.Advanced computerised belt selection technique

We can use advanced computer selection technology to select the most suitable retaining belt for customers according to actual transportation requirements. If you need assistance, please write the attachment form to contact us.

6. Humanized & Safe Packing Method



FILTER BELT



Product Use
It has been widely used in the production and filtration processes of flue gas desulfurization in power plants, chemical industry (catalyst), smelting, mineral processing, petroleum, food, mining, alumina, and paper making.

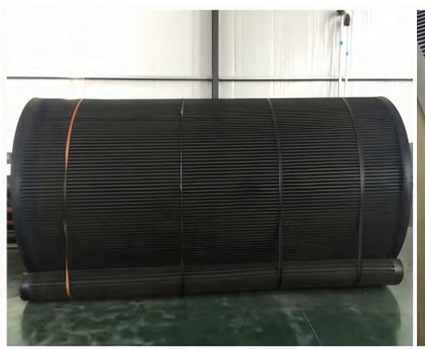
Product Features
GRAND RUBBER filter belt frame material is made of polyester fabric with excellent performance, which has the characteristics of high strength, acid and alkali resistance, heat resistance, and oil resistance. The most notable feature is the small elongation at constant load and it is not easy to deform. The size is stable, operate well in the machine, and it will not stretch in future production. The upper part of the rubber filter belt is constructed with rows of grooves as a drainage belt, there are many drainage holes in the middle of the groove, which can collect liquid in the vacuum box. The drainage hole is made of pure glue, which blocks the risk of reducing the service life of the filter belt caused by the layering of the filter belt due to the penetration of acid and alkali liquid through the fabric. The material of the rubber filter belt is determined according to the nature of the transport material. It can also design perforated areas without fabric according to customer needs.

Production Range:
Belt Width: up to 6500mm
Length: 10 - 200m
Total Thickness: 20 - 50mm
Top Cover Rubber: 10 - 30mm
Bottom Cover Rubber: 5 - 15mm



Rubber types:
Normal, Heat resistant, Acid and alkali resistant, Oil resistant, etc







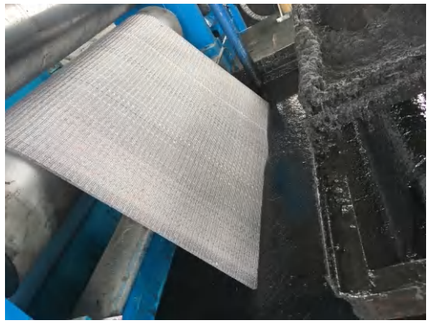


SOLID WOVEN CONVEYOR BELT (PVC/PVG)



Product Use
Woven conveyor belts are applicable to underground coalmines as well as the working environments where flame resistance is required in mining, power, chemical and metallurgy industries. Standard PVC conveyor belts are suitable for application with incline angle below 16° in dry environments. PVG conveyor belts are suitable for application with incline angle below 18° in humid environments.

Production Range
Belt strength: 680S-2500S Belt width: 500mm-1600mm





Technical parameters for reference

Grade of strength	Tensile strength (Min.)		Carcass thickness (mm)	Carcass weight (kg/m²)	Cover grade and thickness(mm)		Belt width (mm)
	Warp (N/mm)	Weft (N/mm)			PVC	PVG	
680S	680	265	6.5	8.5	1.5+1.5	1.5+1.5	500-1600
800S	800	320	6.9	9.0	1.5+1.5	1.5+1.5	
1000S	1000	350	7.5	9.7	2+1.5	2+1.5	
1250S	1250	350	8.5	11.0	2+2	2+1.5	
1400S	1400	350	9.0	11.5	3+2	2.5+1.5	
1600S	1600	450	9.5	12.3	3+2	2.5+1.5	
1800S	1800	450	10.0	13.0	3+2	3+2	
2000S	2000	450	10.5	13.6	3+2	4+2	
2500S	2500	450	12.5	14.5	3+2	5+3	

Superior
Rubber Sheets

HIGH TEAR RESISTANT NR40 SHEET



Application

The high tear-resistant NR40 sheet has superior resilience, tensile strength, tear-resistance and elongation characteristics. Due to these good physical characteristics, it is widely used as the abrasive rubber lining to resist fine grain size products.

Typical Physical Properties

Property	Test Standard	Value
Polymer Type		Natural Rubber
Hardness (Shore A)	ISO 868:2003	40 +/- 5
Tensile strength (Mpa)	ISO 37:2017	≥22
Elongation at break (%)	ISO 37:2017	≥700
Tear Resistance (N/mm)	ISO 34-1:2015	≥60
Abrasion Resistance at 5N (mm^3)	ISO 4649:2017	≤60
Density (g/cm^3)		1.05 +/- 0.05
Compression Set after 22h at 70℃ (%)	ISO 815-1:2014	≤30
Operating Temperature (℃)		-40℃ to 80℃

Aging Test

Property	Test Standard	Value
Hardness change after 168h at 70℃ (Shore A)	ASTM D573-04(10)	≤5
Tensile strength change after 168h at 70℃ (%)	ASTM D573-04(10)	≤-15
Elongation at break change change after 168h at 70℃ (%)	ASTM D573-04(10)	≤-25

Available Size

Thickness 1-30mm
Width 0.9-2m
Length 1-20m

Available Color

Red, Gray, Green, Brown, Customized

Available Surface

Smooth, Fabric Impression, CN bonding layer

ABRASION RESISTANT RUBBER SHEET FOR MINE



Advantage
Excellent abrasion resistance
Flexible size options
More than 30 years of production experience
Reasonable price

Typical Physical Properties

10MPA

Property	Test Standard	Value
Hardness(Shore A)	ASTM D 2240	60±5
Density(g/cm³)	ASTM D 1817	1.2
Tensile Strength(MPa)	ASTM D 412	≥10
Elongation at Break(%)	ASTM D 412	≥300
Abrasion Resistance at 5N(mm³)	ISO 4649: 2017	≤150

15MPA

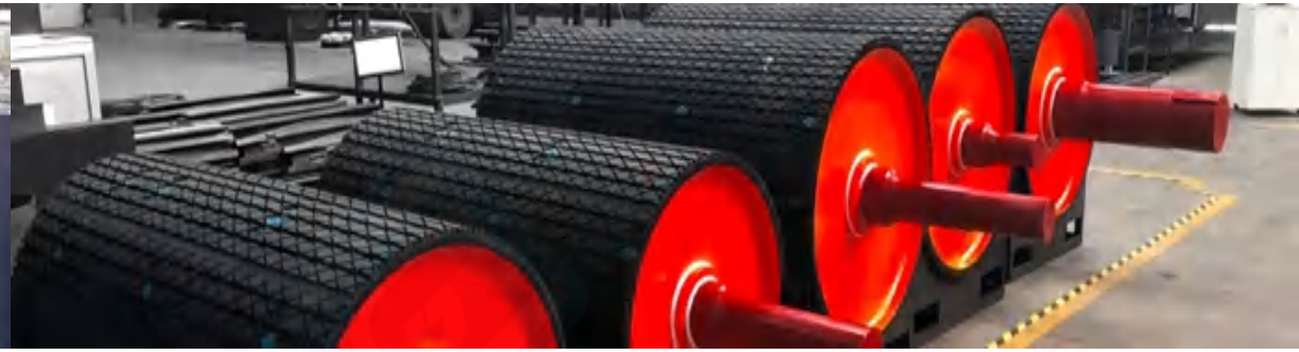
Property	Test Standard	Value
Hardness(Shore A)	ASTM D 2240	60±5
Density(g/cm³)	ASTM D 1817	1.2
Tensile Strength(MPa)	ASTM D 412	≥15
Elongation at Break(%)	ASTM D 412	≥300
Abrasion Resistance at 5N(mm³)	ISO 4649: 2017	≤90

Available Size
Thickness 1-30mm
Width ≤2 m
Length ≤10 m

Available Color
Black



RUBBER PULLEY LAGGING



Application
Rubber pulley lagging is made of high-quality rubber material that resists wear, tear and other forms of damage. It improves the friction and traction between the pulley and the belt. This helps prevent the belt from slipping on the pulleys, which can damage the belt and pulleys and cause costly downtime.

Typical Physical Properties

Property	Test Standard	Value
Polymer Type		Natural Rubber
Hardness (Shore A)	ISO 868:2003	65 +/- 5
Tensile strength (Mpa)	ISO 37:2017	6/8/10/12/15
Elongation at break (%)	ISO 37:2017	≥250/300/350/400/450
Tear Resistance (N/mm)	ISO 34-1:2015	≥25/25/30/30/35
Abrasion Resistance at 5N (mm³)	ISO 4649:2017	≤350/300/250/200/150
Density (g/cm³)		1.35/1.3/1.25/1.2/1.15 (+/- 0.05)
Compression Set after 22h at 70℃ (%)	ISO 815-1:2014	≤50/45/40/35/30
Operating Temperature (℃)		-40℃ to 90℃

Available Size
Thickness 10mm/12mm/15mm
Width 0.6m-2m
Length 1m-20m

Available Color
Black

Available Surface
Fabric impression/CN bonding layer



SANDWICH RUBBER



Application

Sandwich rubber mainly used in the mining and industry. It can be used as a belt cleaning device on either side conveyor belt to wipe off dust and wet slurry's to avoid carry back and build up on rollers. Apply to: sand and gravel quarried, aggregate and cement industries, foundries, mechanical engineering, concrete plants, etc.

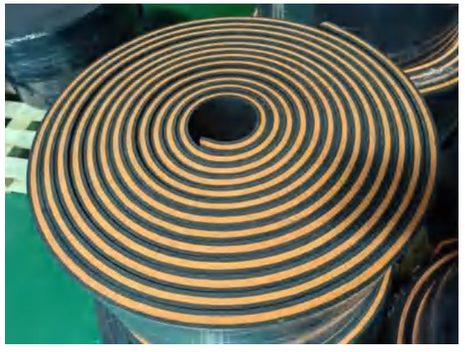
Typical Physical Properties

Property	Test Standard	Value
ColorPolymer		Black/Green/Black
Type		NR/SBR
Hardness (Shore A)	ASTM D2240	60/40/60
Tensile Strength (Mpa)	ISO 37	15MPA
Elongation At Break (%)	ISO 37	≥400
Abrasion Resistance at 5N (mm^3)	ISO 4649:2017	200/120/200(mm^3)
Density (g/cm^3)	ASTM D297	1.15±0.05(g/mm^3)
Operating Temperature (℃)	ISO 815-1	-40 to +100
Finish Type		Both sides smooth

Colors, thickness, tensile strength can be customized

Available Size

Thickness 6mm-50mm
Width 0.6m-2m
Length 1m-20m



RUBBER SKIRT BOARD



Application

The rubber skirt board is a sealing component that is commonly used in conveyor systems to prevent materials from spilling or escaping from the sides of the conveyor belt. It can also help to prevent dust and other fine particles from escaping from the conveyor system.
This can help to improve the overall cleanliness and safety of the work environment.

Typical Physical Properties

Property	Test Standard	Value
Hardness (Shore A)	ISO 868：2003	55/60/65 +/-5
Density (g/cm^3)		1.5/1.45/1.35/1.3/1.25
Tensile strength (Mpa)	ISO 37：2017	4/6/8/10/15
Elongation at break (%)	ISO 37：2017	200/250/300/350/400
Tear Resistance (N/mm)	ISO 34-1：2015	18/20/25/30/35
Abrasion Resistance at 5N (mm^3)	ISO 37：2017	500/350/300/350/200
Compression Set after 22h at 70℃ (%)	ISO 815-1：2014	60/50/45/40/35
Operating Temperature (℃)		-40 to 90



FKM RUBBER(COLORFUL)



Application
Fluorine rubber sheet has excellent chemical inertness, high temperature resistance, oil resistance, acid and alkali resistance and oxidation resistance, and also has good mechanical strength and electrical insulation performance. Fluorine rubber sheets are widely used in aerospace, automobile, petrochemical and other fields.

Available Color
Red, Blue, Green, Yellow, White, Customized



Typical Physical Properties

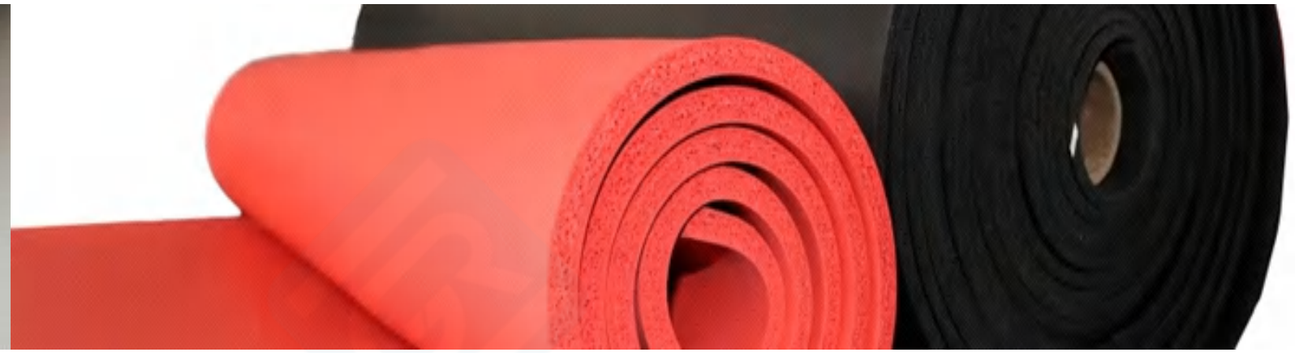
Property	Test Standard	Value
Tensile Strength(MPa)	ASTM D 412	≥7
Hardness(Shore A)	ASTM D 2240	75±5
Density(g/cm³)	ASTM D 1817	1.95±0.05
Elongation at Break(%)	ASTM D 412	≥180
Operating Temperature(℃)		-20 to 205
Compression Set after 22h at 175℃(%)	ISO 815-1	≤55

Aging Test

Property	Test Standard	Value
Hardness after 70h at 150℃ (Shore A)	ASTM D573	≤10
Tensile strength after 70h at 150℃ (%)	ASTM D573	≤10
Elongation at break after 70h at 150℃ (%)	ASTM D573	≤-25
Oil IRM 901, volume after 70h at 150℃ (%)	ASTM D471	≤2
Oil IRM 903, volume after 70h at 150℃ (%)	ASTM D471	≤5

Diluted acids and bases	Concentrated acids and bases	Ozone	Oil and hydrocarbons
Excellent	Excellent	Excellent	Good

EPDM SPONGE RUBBER(CLOSED CELL EPDM)



Application
Be widely used in shock, sound absorption and crash protection requirement. Such as Large conference room, cinema, grand theater, printing and dyeing industry, and some national defense and military industry.

Feature Description
Material:100% EPDM
Excellent UV, Ageing and Ozone resistant
Shock and sound absorption
Soft, bending resistant, rated for cold and high temperature and waterproof
Corrosion and chemicals resistant
Environmental and non-poisonous (passed REACH, RoHS and PAHs tests)
Available with PSA for sticking to surface
High temperature reach to 135℃

Typical Physical Properties

Property	Test Standard	Value
Material		EPDM
Hardness (Shore A)	ISO48-2010	25+/-5
Density（g/cm³）		0.5-0.6
Tensile Strength（MPA）	ISO 37- 2011	≥0.7
Elongation at Break (%)	ISO 37- 2011	≥250
Operating Temperatures		minus 60℃ to + 135℃
Available Color		Black/Red
Compressiblity		33

Available Size
Size by roll
Thickness 2-10mm
Size 1m & 1.2m*10m

Size by piece
Thickness 12-50mm
Size 1m & 1.2m*1m-2m

ENVIRONMENTAL TPE SHEET



Application
Widely used in gyms, table covers, hotels, airports, labs, hospitals, bookstores, schools, offices and other high environment required places.

Advantage
Environmental, passed Reach standard, no smell, consistent color, good looking, excellent resistance of water and slippery, and also good performance on abrasion and aging resistant.

Typical Physical Properties

Product group	Environmental TPE Sheet
Product application	General use indoors
Rubber quality	TPE
Colour	Black, Red, Blue, Yellow, Green, etc
Hardness(°Shore A)	70±5
Density(g/cm³)	0.9-1.5
Working temperature(℃)	-30—+70
Tensile strength（MPA）	3-4
Elongation at break(%)	200
Heating scale reduction(%)	20
Tear resistance(KN/M)	30
Aging Tensile strength(72h/70℃)	> +1%
Aging Elongation at break(72h/70℃)	-25%
Aging Hardness(72h/70℃)	±5%
Aging Tear resistance(72h/70℃)	-15%
Ozone resistance	Good
Weather resistance	Good
Wear resistance（cm³）	≤430
Roll sizes（m）	≤1.8×10-30
Thickness(mm)	2-8

Available Size
Thickness 2mm-6mm
Width ≤1.8m
Length 10m-30m

SILICONE RUBBER SHEET



Features
Silicone rubber sheet has excellent high and low temperature resistance, aging resistance, oxidation resistance, radiation resistance, and also has good mechanical strength and electrical insulation properties. Silicone rubber sheets are widely used in high-tech fields such as aerospace, electronics, and medical equipment.

Color
Translucent, Transparent(Gas Phase Silicone), Red, etc. Colors and models can be customized according to customers' demand.

Application
Electronic industry, wood industry, electrical industry, automobile industry, chemical industry, light industry, photovoltaic industry, power industry, energy industry, laminating machine, glass industry, food industry, aviation industry, ship industry, printing, oven, vacuum blister, film covering, packaging, machinery and equipment, sealing industry, bag making machine, and so on.

Original Properties	Commercial Silicone	FDA Grade Silicone	Gas Phase Silicone	Gas Phase FDA Silicone	Flame-resistant Silicone	Anti-Static Silicone
Density	1.25g/cm³	1.25g/cm³	1.25g/cm³	1.25g/cm³	1.5g/cm³	1.25g/cm³
Hardness (Shore A)	55-65	55-65	55-65	55-65	55-65	55-65
Tensile Strength	6Mpa≥	6Mpa≥	8.5Mpa≥	8.5Mpa≥	5Mpa≥	6Mpa≥
Elongation	300%≥	300%≥	500%≥	500%≥	300%≥	400%≥
Tensile Set	10%≤	10%≤	8%≤	8%≤		
Temperature Range	-40℃-200℃	-40℃-200℃	-40℃-200℃	-40℃-200℃	-40℃-260℃	-40℃-200℃
Tear Strength	18KN/m≥	20KN/m≥	30KN/m≥	32KN/m≥		
Food Safety	General Industry Grade	FDA Food Grade	General Industry Grade	FDA Food Grade	General Industry Grade	General Industry Grade
Odor Test	Slight vulcanizing agent smell	Almost tasteless	Slight vulcanizing agent smell	Almost tasteless	Slight vulcanizing agent smell	Slight vulcanizing agent smell
Flame Resistance	FV-1	FV-1	FV-1	FV-1	FV-0	