

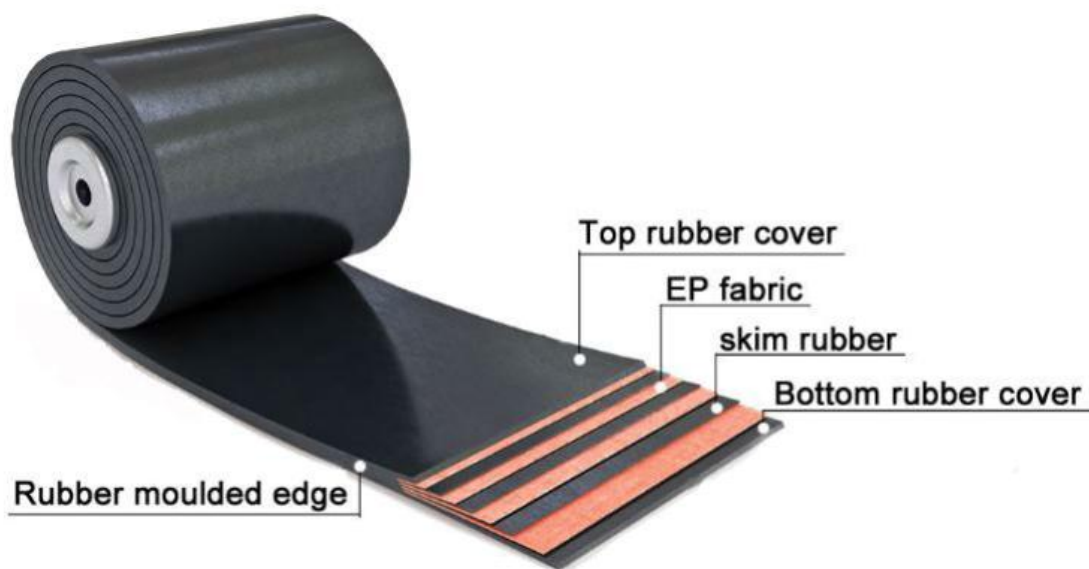
Conveyor Belt Catalogue



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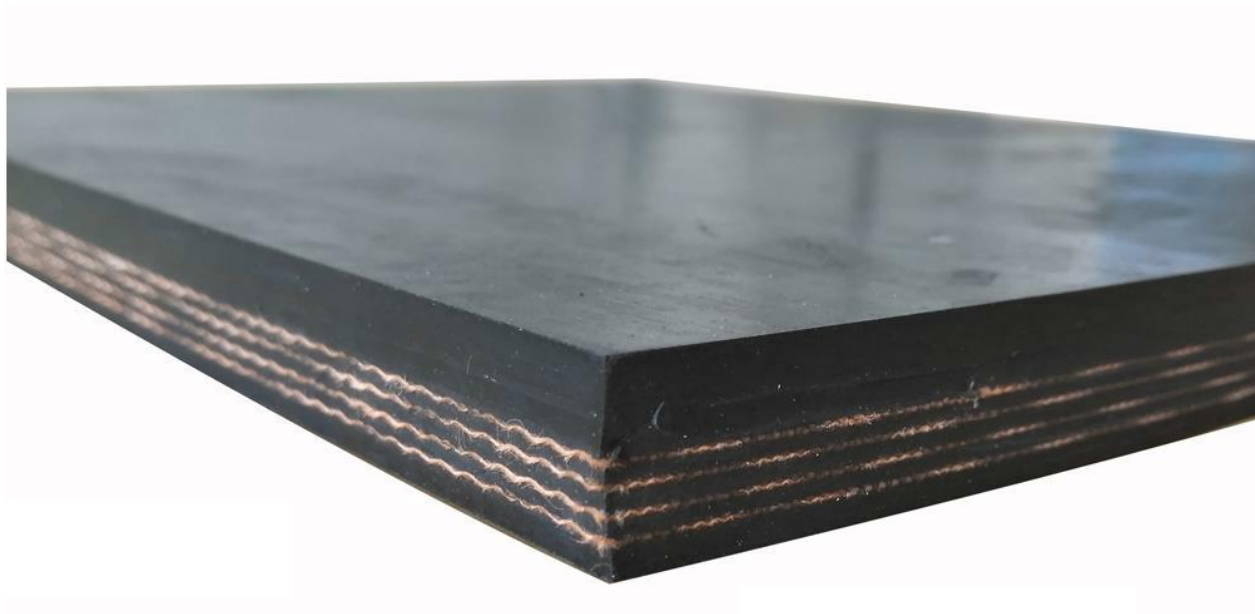
PRODUCT DESCRIPTION



Property

- Suitable for heavy duty operations due to polyester/polyamid(EP) fabric structure design
- Low elongation with highly reliability and durability
- High adhesion between plies and between cover and ply.
- Advanced production technologies and facilities ensure ep conveyor beltings extended service life
- Available width from 300mm to 2500mm, depending on rubber conveyor belts thickness and length
- Different cover quality enable EP conveyor belts to transport materials which is -40°C to 300°C, combustible, oily and cold.

SPECIFICATIONS



DIN-Y

1000m

EP400/3

4+2

9mm

300m

Moulded Edge

Width

Tensile strength

Total Thickness

Length

Cover
Rubber Grade

Top+Bottom
Thickness

Belt Edge type

SPECIFICATIONS

Cover Rubber Grade	8MPA,10MPA,12MPA,15MPA 18MPA,20MPA,24MPA,26MPA	DIN-X,Y,W RMA-1,RMA-2 N17,M24
Belt Width (Mm)	500,600.650,700,800,1000,1200 1400,1500,1800,2000,2200,2500	18",20",24",30",36",40",42" 48",60",72",78",86",94"
Tensile Strength	EP400/4,EP500/4,EP600/4 EP500/5,EP1000/5,EP1250/5 EP600/6,EP1200/6	330PIW, 440PIW
Top+Bottom Thickness	3+1.5, 4+2, 4+1.5, 4+3, 5+1.5	3/16"+1/16", 1/4"+1/16"
Belt Thickness	3mm,4mm,5mm,6mm,7mm,8mm,9mm,10mm,12mm,15mm,20mm,25mm	
Belt Length	10m,20m,50m,100m,200m,250m,300m,500m	
Belt Edge Type	Moulded (Sealed) Edge OR Cut Edge	

FLAME RETARDANT CONVEYOR BELTS

For conveying combustible materials such as coal dust, gas, fertilizer, etc., it is very important to choose refractory conveyor belt. It is mostly used in wood, paper and pulp, sugar and food, recycling and fertilizer plants.



manufacture fire resistant conveyor belts according to customer's operational conditions.

Property

- Anti-static which conform to EN/ISO 20284 international standards
- When ignited, it will self-extinguish within 15 seconds
- Rubber belts reinforced by several layers of textile fabrics (multi-ply) or steel cord
- Available in abrasion resistant type--as low as 150mm³, oil resistant type for both mineral oil and vegetable oil
- Widely used in underground mining industry for long distance transportation with high speed
- K grade(with covers) and S grade(with or without covers) are available for fire resistant conveyor belts

FLAME RETARDANT CONVEYOR BELTS

Flame retardant conveyor belts test based on EN/ISO 340:

- Anti-static: $\leq 3 \times 10^8$
- Drum friction: no flame under the condition of 325°C
- Buring test:



Flame retardant conveyor belt sample



Put six individual samples of the belt on a naked flame



The flame goes out within 10 seconds after leaving the fire



Normal conveyor belt sample



Put six individual samples of the belt on a naked flame



Continue to burn after leaving the fire

A. For individual test sample of fire resistant conveyor belts, the time it takes to self-extinguish should be no more than 15 seconds.

B. For each group of six test pieces, the maximum cumulative time they take to self-extinguish should be no more than 45 seconds

HEAT RETARDANT CONVEYOR BELTS



When conveying hot materials, the working surface rubber contact with materials directly. Conventional conveyor belts will be easily cracked and hardened under this condition. This will reduce the protection of carcass from cover rubber, thus resulting in carcass separation and splice failure.

Heat-resistant conveyor belts select heat-resistant compounds and innovative structure to solve these problems.

Ideal for transporting high-temperature, high-heat raw materials, semi-finished products, and products. If the belt surface temperature exceeds 60°C, use SINOCONVE heat-resistant conveyor belt.



HEAT RETARDANT CONVEYOR BELTS

Product advantage:

- Optimal formula of EPDM/POE vulcanizing, together with designed mixing process, to obtain ideal heat resistant cover rubber.
- Aminolysis reaction resistant fiber material is covered on both sides of textile carcass of burning through resistant conveyor belts. It not only effectively isolate polyester fiber from direct contact with cover rubber, preventing carcass destruction caused by heat, but also retain a high adhesion to EPDM under high temperature.
- Anti-aging property of special textile carcass make it no need to increase cover rubber thickness during belt design, resulting a reduction on cover rubber consumption and production cost of burning through resistant conveyor belts.

Item		Classes			
		T1	T2	T3	T4
		Test Temperature			
		≤100°C	≤125°C	≤150°C	≤175°C
		Change Range Allow			
Hardness	The difference after aging	20	20	20	20
	Maximum value after aging	85	85	85	85
Tensile Strength	Performance change rate	-25	-30	-40	-40
	Minimum value after aging	12	10	5	5
Elongation	Change rage after aging	-50	-50	-55	-55
	Minimum value after aging	200	200	180	180

OIL RETARDANT CONVEYOR BELTS

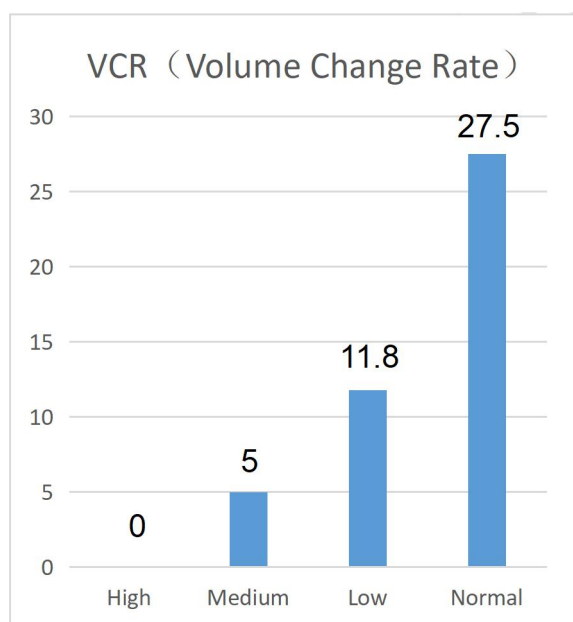
oil-resistant conveyor belt is very suitable for conveying oily materials in various fields such as food, animals, plants, and minerals. Using ordinary conveyor belts at high temperatures, due to the synergistic effect of oil and temperature, the life of the conveyor belts will be greatly shortened.



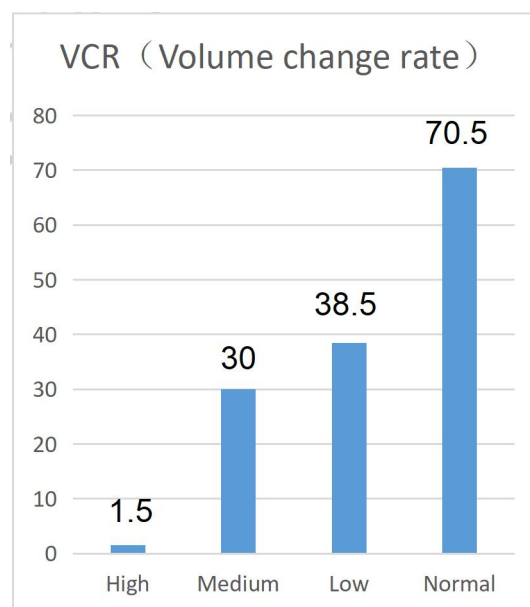
Oil Resistance Grade	Type	Typical Type
(1)Low	Cereals	Soybeans, Peanuts,Etc.
(2)Medium	Animal And Vegetable Oils	Rapeseed Oil, Palm Oil, Lard Oil, Fish Oil,Etc.
(3)High	Mineral Oil	Kerosene, Engine Oil, Hydraulic Oil, Etc.

Volume Change Rate / Type Of Belt

Rapeseed Oil



Kerosene



ACID/ALKALI RETARDANT CONVEYOR BELTS

acid & alkali retardant conveyor belts is suitable for conveying acidic or alkaline materials in chemical plants, paper mills, cement plants, etc.

Typical Chemical Types That Can Be Applied

Chemical Type	Concentration	Chemical Type	Concentration
Hydrochloride	Less than 20%	Acetic Acid	Less than 10%
Nitric Acid	Less than 20%	Caustic Soda	100%
Sulfuric Acid	Less than 40%	Potassium Hydroxide	100%
Boric Acid	Less than 40%	Ammonia Anhydrous	100%
Phosphoric Acid	Less than 40%	Acetone	100%
Arsenic Acid	100%	Aniline	100%
Carbonic Acid	100%	Phenol	100%
Formic Acid	100%	Ethanol	100%

For other chemicals, please contact us.

ABRASION RETARDANT CONVEYOR BELTS

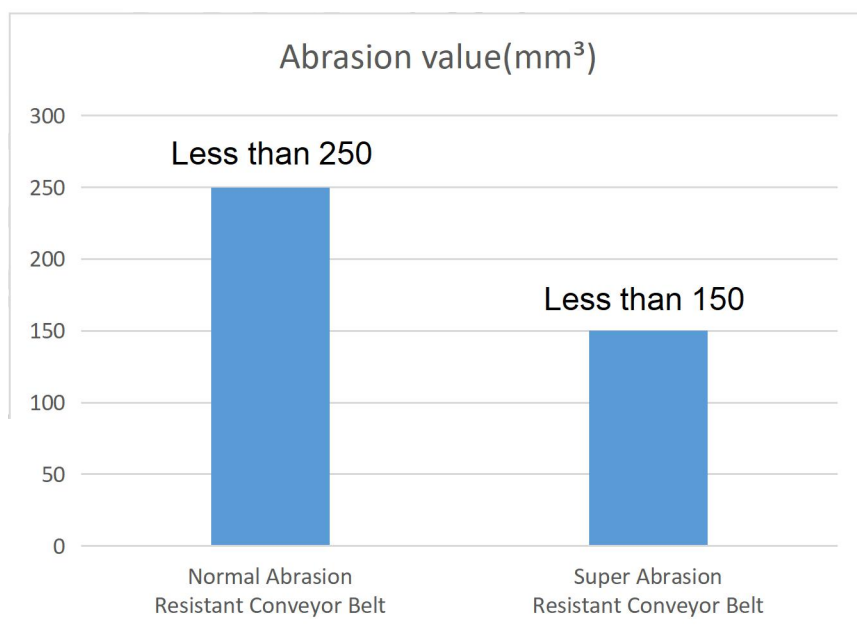
abrasion retardant conveyor belt uses rubber with excellent wear resistance, which is suitable for quarries, mines, etc.



BELT Abrasion resistance test method: press a cylindrical sample with a diameter of 16mm and a thickness of about 8mm on a roller wrapped with sandpaper under a certain load. The sample wears when the drum rotates, and the wear after a certain distance is measured.

Abrasion resistance test

- ① Normal abrasion resistant conveyor belt, the abrasion is less than 250mm³.
- ② Super abrasion resistant conveyor belt with abrasion less than 150mm³.



IMPACT/CUT RETARDANT CONVEYOR BELTS

impact/cut retardant conveyor belts has excellent impact resistance, cut resistance and chipping resistance, and uses cover rubber. it is suitable for the transportation of sharp objects, such as crushers, rough stones, waste materials, logs, glass and iron flakes.

1. Impact test method

Testing machine: drop hammer impact testing machine

Cutting edge angle: 90°

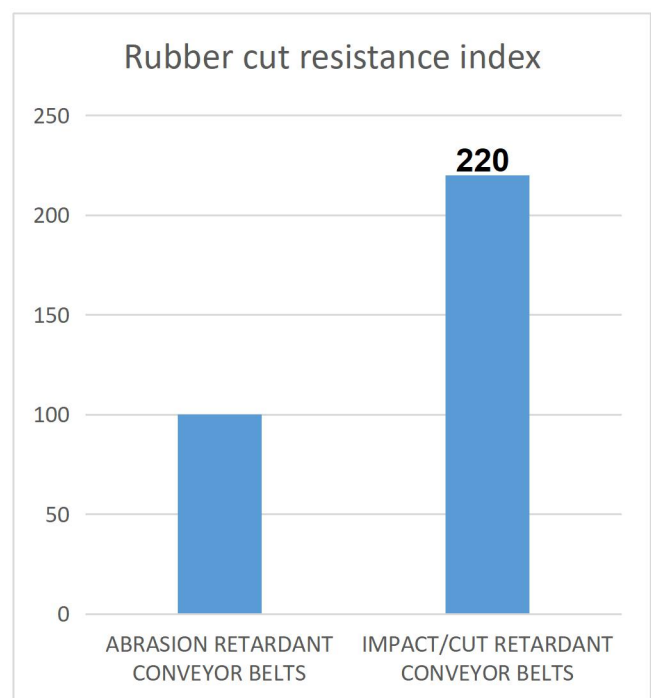
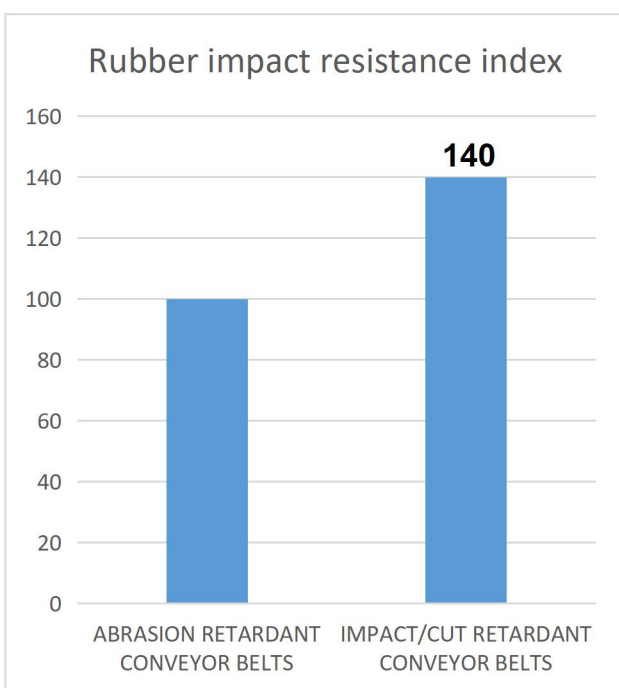
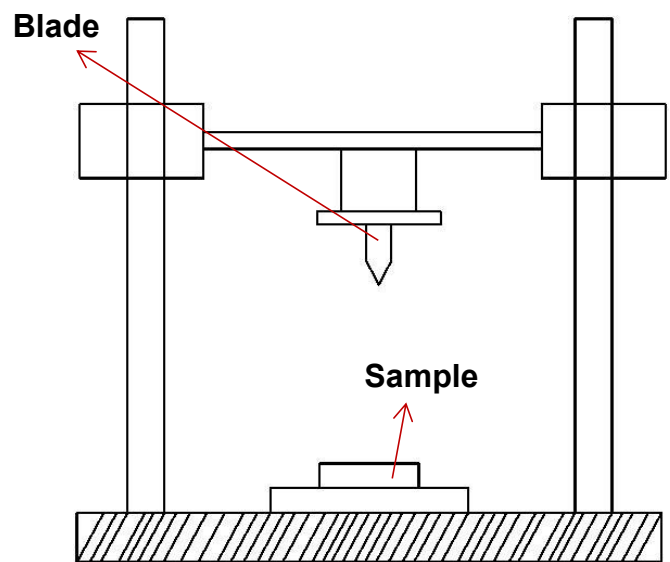
2. Cutting resistance test method

Testing machine: drop hammer impact testing machine

Drop weight: 15kg

Drop height: 400mm

Cutting edge angle: 90°



CHEVRON CONVEYOR BELTS

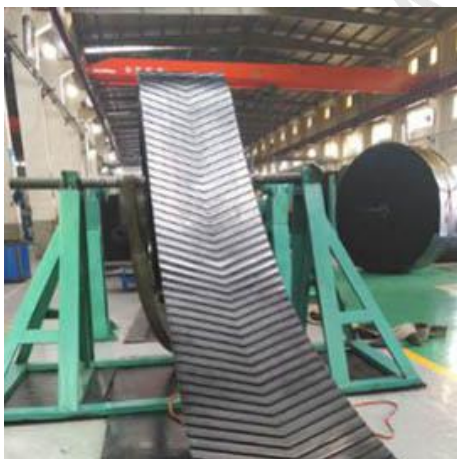
Chevron conveyor belts are used on slope angles up to approx. 30° for slightly rolling materials such as gravel and coal and up to approx. 40° for sticky materials such as wet sand and earth. Patterned conveyor belts are also a highly effective belt for conveying packages such as sacks and bales.

Product advantage of chevron conveyor belts:



1.The cleats are moulded and vulcanized in one single process together with the base belt of patterned conveyor belts.

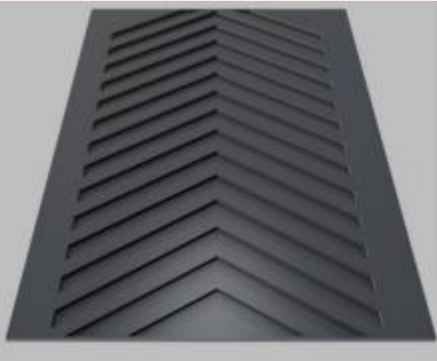
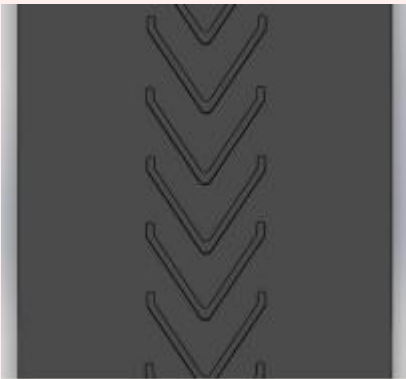
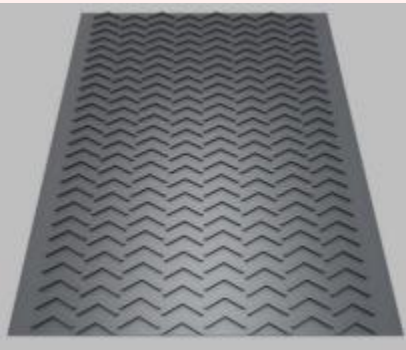
2.Profile conveyor belts allows the use of smaller pulley diameters.

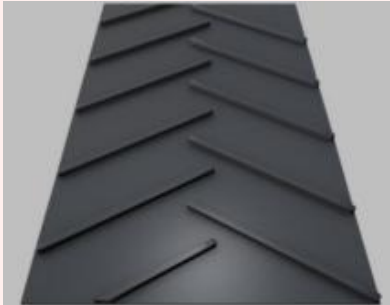
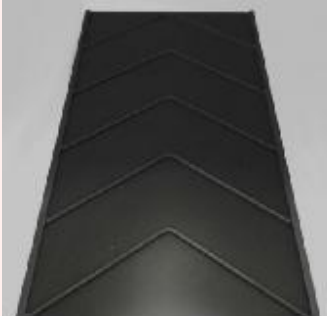


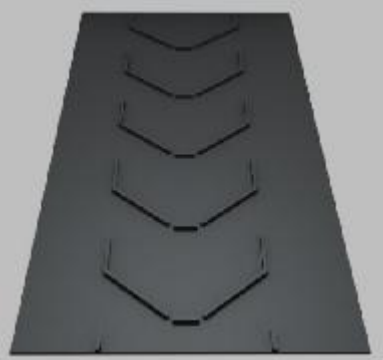
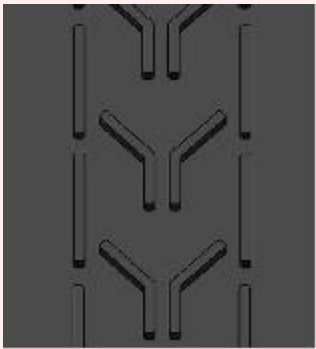
3.High quality cover rubber compound is excellent resistant to abrasion.

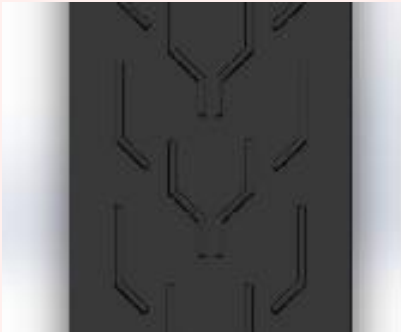
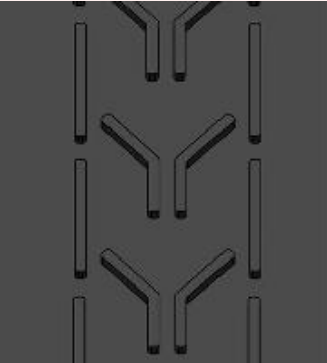
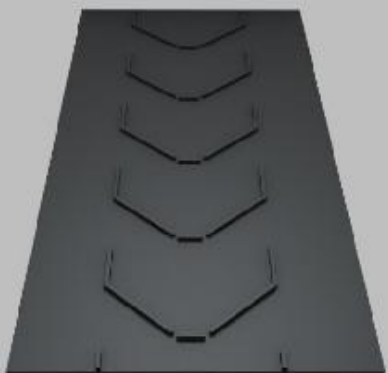
CHEVRON CONVEYOR BELTS

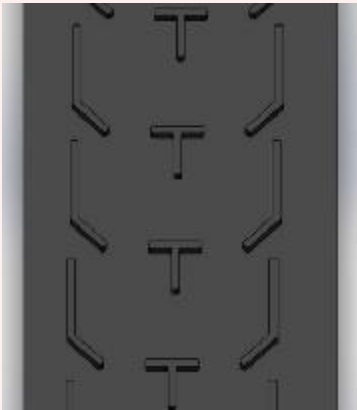
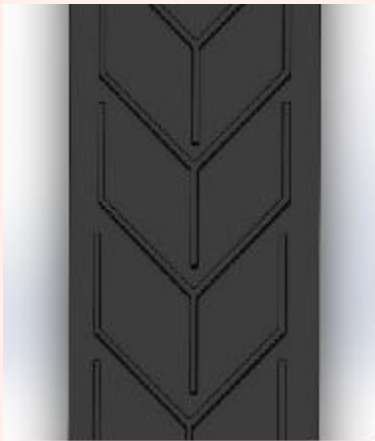
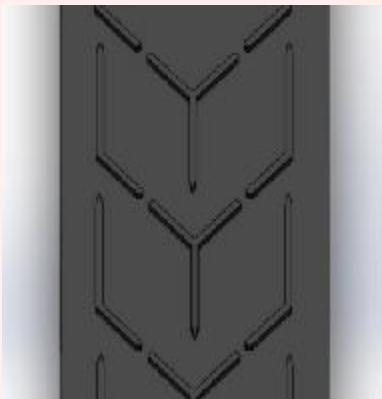
Chevron Conveyor Belt Drawing Data

Drawing	Chevron height(mm)	Chevron width(mm)	Chevron pitch (mm)	Belt width(mm)
	-2.4	310	30	460
		350		500
		410		560
		460		610
		610		760
		810		960
Drawing	Chevron height(mm)	Chevron width(mm)	Chevron pitch (mm)	Belt width(mm)
	5	260	230	260-1000
	5	300	230	300-1000
Drawing	Chevron height(mm)	Chevron width(mm)	Chevron pitch (mm)	Belt width(mm)
	6	148	75	<1200

Drawing	Chevron height(mm)	Chevron width(mm)	Chevron pitch (mm)	Belt width(mm)
	6	600	70	600-1000
Drawing	Chevron height(mm)	Chevron width(mm)	Chevron pitch (mm)	Belt width(mm)
	6	655	80	655-1000
	6	800	80	800-1000
	10&11	800	80	800-1400
	15	1100	155	800-1200
	16.5	1000	80	1000-1400
Drawing	Chevron height(mm)	Chevron width(mm)	Chevron pitch (mm)	Belt width(mm)
	12.5	914.4	200	914.4-1400
Drawing	Chevron height(mm)	Chevron width(mm)	Chevron pitch (mm)	Belt width(mm)
	13.5	658	198	658-788
	13.5	800	198	800-1000

Drawing	Chevron height(mm)	Chevron width(mm)	Chevron pitch (mm)	Belt width(mm)
	15	330	250	330-1000
	15	385	250	385-1000
	15	450	300	450-1000
	15	600	250	600-1000
	15	600	330	600-1400
	15	750	250	750-1400
Drawing	Chevron height(mm)	Chevron width(mm)	Chevron pitch (mm)	Belt width(mm)
	15	750	300	750-1400
Drawing	Chevron height(mm)	Chevron width(mm)	Chevron pitch (mm)	Belt width(mm)
	15	500	330	500-800
Drawing	Chevron height(mm)	Chevron width(mm)	Chevron pitch (mm)	Belt width(mm)
	16	330	250	330-500
	16	440	250	440-650
	16	540	250	540-800

Drawing	Chevron height(mm)	Chevron width(mm)	Chevron pitch (mm)	Belt width(mm)
	16	420	400	600
Drawing	Chevron height(mm)	Chevron width(mm)	Chevron pitch (mm)	Belt width(mm)
	17	440	330	500-650
	17	630	330	650-900
	17	950	330	1000-1200
Drawing	Chevron height(mm)	Chevron width(mm)	Chevron pitch (mm)	Belt width(mm)
	25	230	250	230-400
	25	330	250	330-500
	25	440	250	440-650
	25	540	250	540-540
	25	750	250	750-1000
Drawing	Chevron height(mm)	Chevron width(mm)	Chevron pitch (mm)	Belt width(mm)
	25	450	330	450-1000
	25	550	330	550-1000
	25	750	330	750-1400
	35	500	250	500-970

Drawing	Chevron height(mm)	Chevron width(mm)	Chevron pitch (mm)	Belt width(mm)
	25	550	250	550-1400
Drawing	Chevron height(mm)	Chevron width(mm)	Chevron pitch (mm)	Belt width(mm)
	32	600	300	600-800
	32	600	356	700-1000
	32	800	318.2	800-1500
Drawing	Chevron height(mm)	Chevron width(mm)	Chevron pitch (mm)	Belt width(mm)
	32	590	385	590-800
	32	590	333	590-800

SIDEWALL CONVEYOR BELTS



Special treated steel mesh inserted into both top cover and bottom cover, creating an excellent combination of longitudinal flexibility and transverse rigidity. The entire steep angle conveyor belts are highly durable, low elongation and long lasting

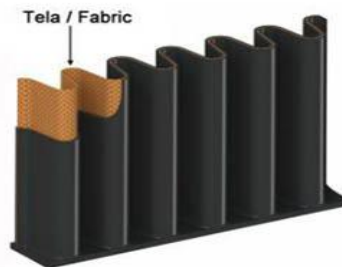
Sidewall conveyor belts are composed of three parts: base belt, sidewall and cleats

Possible to convey at steep angle with big capacity in a limited space.



Fabric inside sidewall perfectly combine flexibility and strength to effectively avoid torn.

Sidewall is hot vulcanized on the base belt
High quality rubber to guarantee sidewall withstand highly stress and repeated flexing.



Cleats are also hot vulcanized on the base belt

Fabric inside cleats protect cleats from deformation caused by impact.

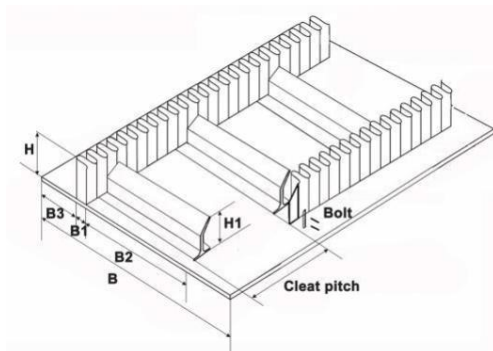
Cleats are the main part to carry materials in a high capacity and steep angle

Available with TC or TCS type

Special compounds to extremely avoid deformation caused by impact.



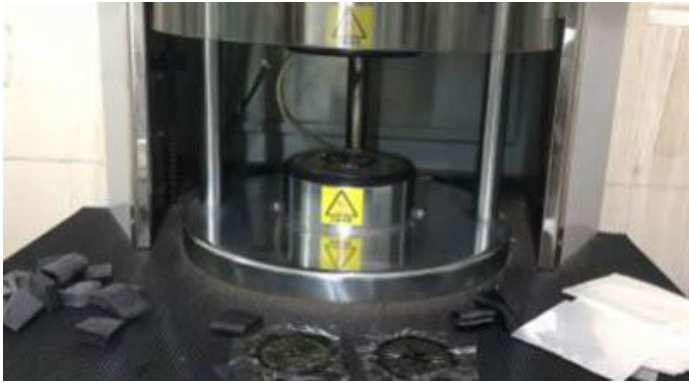
Sidewall conveyor belts are composed of three parts:base belt,sidewall and cleats.Sidewall and cleats are connected with base belt by second hot vulcanizing,which create a super-strength bond between sidewall,cleats and base belt,preventing base belt aging caused by multi vulcanizing.The entire steep angle conveyor belts are highly double,low elongation and long lasting.



Base belt width(B)	Sidewall height(H)	Cleat height(H1)	Bottom width of sidewall(B1)	Cleat width(B2)	Empty width(B3)
300	40	35	25	180	35
	60	55	50	120	40
	80	75			
400	60	55	50	180	60
	80	75			
	100	90			
500	80	75	50	250	75
	100	90			
650	100	90	50	350	100
	120	110			
	160	140		300	
800	120	110	50	460	120
	160	140	75	410	
	200	180			
1000	160	140	75	550	150
	200	180			
	240	220			
1200	160	140	75	690	180
	200	180			
	240	220			
	300	260	100	640	
1400	200	180	75	830	210
	240	220			
	300	260	100	780	
	400	360			

QUALITY CONTROL

Step 1: Raw material inspection



Rubber compound test

Moving die rheometer analyzes the characteristics of Rubber Compound



EP fabric test

Tensile strength test and elongation test when broken.

Step 2: Advance equipment to guarantee quality from the details



Calender process

4 rollers calender machine is able to stick rubber on both side of the fabric in one time. This can reduce the strength loss of the rubber during the process.



Forming process

The forming tension is even between different plies, which can avoid wrinkled fabric and guarantee an even thickness of belt core.

QUALITY CONTROL

Step 3: Finished belts inspection

have an inspection team to inspect the surface and dimension of each conveyor belt. If any problem on belt surface, we will repair at once in our factory.



**Length and surface
inspection**



Thickness inspection



Width inspection

Step 4: Technical data test

have a lab to test all raw materials and rubber compound. For each roll of conveyor belt, the lab will test the following features, and issue Quality Test Report.



Abrasion test



Adhesion strength test



Tensile strength test

Step 5: Issue quality test report

Test certificate Rubber conveyor belt acc. to AS 1332-2000

1. Belt construction	EP800/4, 1400mm width, (6+4) 14.8mm thickness, 250m length, roll, moulded edge, open end belt, AS-M		
1.1 Belt manufacturer	NINGBO SINOCONVE BELT CO., LTD	1.4 Customer:	*****
1.2 Belt No.	21730	1.5 Order No.	*****
1.3 Belt length	250		

2 Belt dimensions	standard	Unit	Required value	Tol.	Observed value
2.1 Belt width	As per order	mm	1400	+/-12	1400
2.2 Belt thickness	As per order	mm	14.8	+1.4/-1.0	15
2.3 Top cover thickness	As per order	mm	6		6.1
2.4 Bottom cover thickness	As per order	mm	4		4.1

3 Coverrubber						Top	Bottom
3.1 Tensile strength	DIN 22102	N/mm2	➤	24		25.3	24.1
3.2 Elongation at break	DIN 22102	%	➤	450		463	467
3.3 Tensile strength / at 70°C for 7 days	Change	Change %	➤	+/-25		-7.2	-8.1
3.4 Elongation at break / at 70°C for 7 days	Change	Change %	➤	+/-25		-12	-11.4
3.5 Hardness	DIN 22102	Shore A		65	+/- 5	66	65
3.6 Abrasion	DIN 22102	mm3	➤	125	+/- 10	122	

4 Adhesion strength						
4.1 Top cover to Ply	DIN 22102	N/mm	➤	6		6.1
4.2 Bottom cover to Ply	DIN 22102	N/mm	➤	6		6.3
4.3 Ply to Ply	DIN 22102	N/mm	➤	6		6.1
4.4 Average value between ply	DIN 22102	N/mm	➤	4.5		6.3
4.5 Lowest value between ply	DIN 22102	N/mm	➤	3.9		5.2

Above test result is related to the lab sample

TRANSPORT PACKAGE

