HEBEI SANHE RUBBER CO., LTD.

RUTAX BELT

HEAVY DUTY RUBBER CONVEYOR BELT →

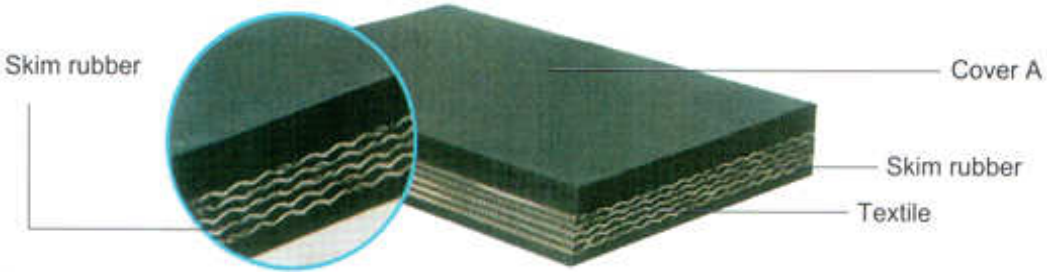
Multi-ply Fabric Rubber Conveyor Belt

*EP-Conveyor Belt (General Application)
*Nylon-Conveyor Belt (General Application)
*Heat Resistant Conveyor Belt
*Fire Resistant Conveyor Belt
*Abrasion Resistant Conveyor Belt
*Oil Resistant Conveyor Belt
*Cold Resistant Conveyor Belt
*Fire-Oil-Static Resistant Conveyor Belt
*Acid-alkli resistant Conveyor Belt

Solid Woven Conveyor Belt

Multi-ply Fabric Conveyor Belt

***EP-Conveyor Belt (General Application)**



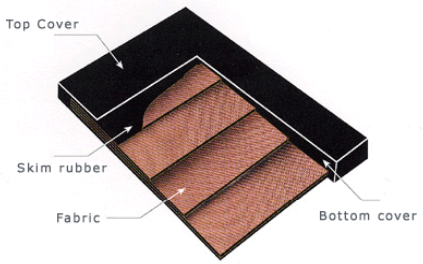
Polyester conveyor belts,also called EP conveyor belts,whose tension resistant body is canvas woven by polyester in warp and nylon-66 in weft.
Widely used in Mining, Harbour, Coal, Matallurgy, Chemical etc. Field for Conveying bulk Materials.
It is good at for long distance and heavy duty materials transportation.

Specification and technical data of multi-ply polyester conveyor belt:

Fabric specs	Ply thickness with skim rubber	Strength series(N/mm)					Cover thickness (mm)		Width (mm)	Length (M)
		2 ply	3 ply	4 ply	5 ply	6 ply	Top	Bottom		
EP80	1.00	160	240	320	400	480				
EP100	1.10	200	300	400	500	600				
EP125	1.10	250	375	500	625	750				
EP150	1.20	300	450	600	750	900				
EP175	1.20	350	525	700	875	1050				
EP200	1.25	400	600	800	1000	1200		0~10	400~2400	≤300
EP250	1.30	500	750	1000	1250	1500				
EP300	1.60	600	900	1200	1500	1800				
EP350	1.70	--	1050	1400	1750	2100				
EP400	1.80	--		1600	2000	2400				
EP500	2.00	--		2000	2500	3000				

Adhesion and elongation of the belt:

	Adhesive strength			Elongation	
		N/mm Between ruber and			
EP carcass	Between plies N/mm ⩾ 6.5N/mm	Rubber thickness <= 1.5mm	Rubber thickness > 1.5mm	Longitudinal elongation at break %>=	Longitudinal elongationa at reference load %<=
		4.5N/mm	5.5N/mm	10	2



Cover properties of the belts:

Cover grade	Tensile strength ⩾ Mpa	Elongation at break %	Abrasion ⩽ mm^3
W	18	400	90
X	25	450	120
Y	20	400	150
Z	15	350	250
M	24	400	125
N	17	400	200
S	12	300	250
RMA	14	350	220

***Nylon-Conveyor Belt (General Application)**

Nylon is one of the best quality synthetic fibers the rubber industry use nowadays. The nylon canvas is woven by nylon fibers both in warp and in weft, it is the most widely used fabric in rubber industry,and its outstanding merits are its high abrasion resistance,high tensile strength and good fatigue resistance. Conveyor belts with nylon canvas inside have the characteristics of thin belt body ,high tensile strength, good shock resistance,good troughability.

Adhesion and elongation of the belt:

	Adhesive strength			Elongation	
EP carcass	N/mm ⩾ 6.5N/mm	N/mm Between ruber and		%>=	elongationa at reference load
		Rubber	Rubber		
		4.5N/mm	5.5N/mm	10	2

Cover properties of the belts:

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***Heat Resistant Conveyor Belt**

The belt carcass of this product is EP fabric of high modulus,low shrink,and high breaking tensile strength.Cover rubber of this product uses EPDM rubber or Chloro-butyl rubber that has very good high temperature resistance.the belt is made with extra care after mixing rubber with high temperature resistant materials,assembling and vulcanizing.

Under normal working condition with the temperature below 180℃, the belt is low elongation and excellent and excellent anti-abrasion, it can also bear 250℃ high temperature for a short time. The belt is suitable for use in cement, metallurgical and steel industry.

Item		Class			
		T1	T2	T3	T4
		Test temperature			
		≤100℃	≤125℃	≤150℃	≤200℃
		Change range allowed			
Hardness	Difference before and after aging(IRHD)	+20	+20	+20	+20
	Maximum value after aging(IRHD)	85	85	85	85
Tensile Strength	Change rate after aging/%	-25	-30	-40	-40
	Minimum value after aging/Mpa	12	10	5	5
Breaking Elongation	Change rate after aging/%	-50	-50	-55	-55
	Minimum value after aging/%	200	200	180	180

***Fire Resistant Conveyor Belt**

it is suitable for conveying various non-corrosive and thornless materials in blocks,in grains,or in powder, such as coal in bulk or in bales,under the condition of flammable or explosive environment above coalmine wells.

Safety property:

Fire testing by alcohol blowtorch	Anti-static property	Drum Friction
Standard data ≤3 S	≤3 x $10^8\Omega$	< 325℃
Actual data ≤2 S	≤3 x $10^6\Omega$	< 260℃

Tensile strength of rubber cover: ≥ 15MPa

Elongation rate of rubber cover: ≥ 450%

The available width: From 500mm to 2400mm.

The available No. of ply: 2-8

MSHA (2G) grade: average after-flame time of less than 60 seconds. And average after-glow time of less than 180 seconds

Ignition Removal After 1min.

Fire resistant conveyor belt

Ignition Removal After 1min.

Normal conveyor belt

***Abrasion Resistant Conveyor Belt**

Abrasive resistant conveyor belt introduction

By way of reducing the weight of the conveyor belt, improving the flexibility of rubber and reducing the friction coefficient and etc., the resistance between the conveyor and the belt is greatly reduced.

The abrasion loss can be controled within $90mm^3$~$120mm^3$

With the highly elastic and abrasion resistant cover, the belt is abrasion resistant and shock resistant.

The belt has a long working life.

Usage:

This belt is especially suitable for medium, long-distance transportation of materials, used in lines of mining, port, electricity, metallurgical industry, chemical industry, coal mines and etc..

***Oil Resistant Conveyor Belt**

It is suitable for conveying oily materials or working at oily sites.

MainTechnical indexes:

1.Oil resistant conveyor belt can be divided into two types according to cover properties:

The mediam class oil resistan and High class oil resistant.

Class	Cover tensile strength	Elongation	Abrasion
Mediam	⩾14MPa	⩾350%	
High	⩾16MPa	⩾350%	⩽250mm^4

Oil resistant performance of cover rubber:

Mineral Oil； Animal & Vegetable Oil；Grain Oil

Mediam class: 72 hours @ 100C, 903 oil, the volume change rate ⩽40%

Hight class: 72 hours @ 100C, 903 oil, the volume change rate ⩽12%

***Cold Resistant Conveyor Belt**

Product characteristics:

The product selects cotton canvas,nylon canvas or EP canvas as carcass. Cover rubber selects a blend of NR and BR,which has the properties of high elasticity, shock resistance,cold resistance and etc.It can work normally under the conditions of -40oC.

Usage: Suitable for conveying materials outdoors in freezing area,cold storage and etc.

Technical indexes:

According to cold resistance,it can be divided into two types of Class 1 and Class 2.

1. Class 1-Working temperature: -45~+50'C ;

2.Class 2-Working temperature: -70~+50'C ;

***Fire-Oil-Static Resistant Conveyor Belt**

We call this belt is "Ultra Grain Handler Covers belt". It is widely used throughout the grain industry. Provides maximum oil resistance to the destructive effects of grain oils and oil based dust suppressant additives. Temperature range -30°F - 180°F. Surpass U.S occupational safety and Health Administration specifications for static conductivity. Cover is also flame retardant per MSHA

Designed for oil treated grain, crushed soybeans and othermaterials where mineral, animal, or vegetable fats are a deteriorating factor and where combustion properties are a concern.

Application Details

Ozone Protection

Meets MSHAflammability standards

Meets OSHA static conductivity requirements

Hardness: 62 +/- 5 Shore A

(MSHA (2G) grade: average after-flame time of less than 60 seconds. And average after-glow time of less than 180 seconds; Static conductivity: meet OSHA regulation: surface electrical resistance not to exceed 3x108Ω)

***Acid-alkli resistant Conveyor Belt**

Chemicals and fertilizers

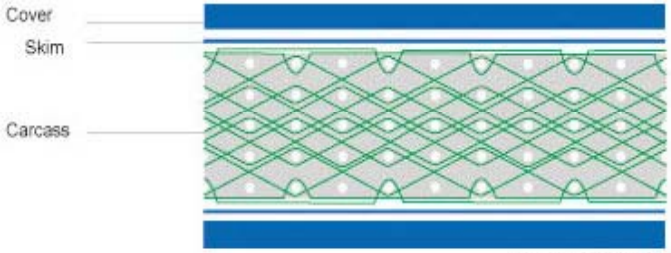
Safety, particularly fire hazards, the abrasive nature of coarse bulk materials, hot, chemical and oil based products are amongst the many and varied demands placed on conveyor belts in the chemical and fertilizer industry. Long-term durability and reliability have a major influence on the cost effectiveness of the operation. The rubber cover,which is made from chemical resistant materials,has fine anti-chemical corrosiveness and good physical properties.

Technical indexes:

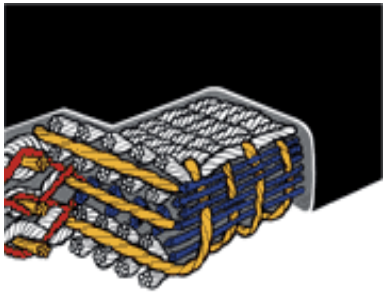
acid and alkali resistance	class		soak liquid		Density		soak conditions oC x96h	change rate before and after aging	
								swelling rate	change rate of tensile strength
	A1		HCL		18%		50'C x96h	<+10%	<-10%
	A2		H2SO4		50%		50'C x96h	<+10%	<-10%
	A3		NaOH		48%		50'C x96h	<+10%	<-10%

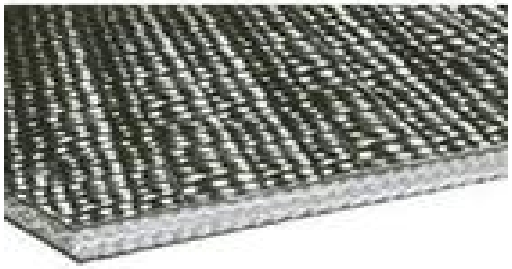
Acid-alkli resistant Conveyor Belt

Solid Woven Conveyor Belt



Construction of solid woven belting





Classification of product:
1.Non pressed PVC type
After dipping with PVC paste on the soild woven fabric, add PVC cover on the solid carcass to form the belt.
2.PVG type
Based on the non pressed PVC type,the carcass is covered with top and bottom covers composed mainly of rubber.the belt is then formed after being pressed.

Advantages:
•fire resistant and anti-static properties which meet the most stringent safety standards in the world
•high resistance to longitudinal tears
•high resistance to impact damage
•impervious to attack from acid, water, oil, bacteria and chemicals

FINAL INSPECTION

Before shipping, belts are 100% inspected and recoiled into a maximum of 3m diameter rolls (the maximum size that can be handled safely through the factory). Double coils can be supplied if there are height constraints. At this point, the customer's preferred mechanical fasteners can be fitted.

PACKING

Central cores are supplied in either wood or steel. Various packaging materials of different durability are used, dependent on transport, site environment and customer preference.

SHIPMENT

Container loading

Rutax BELT

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