

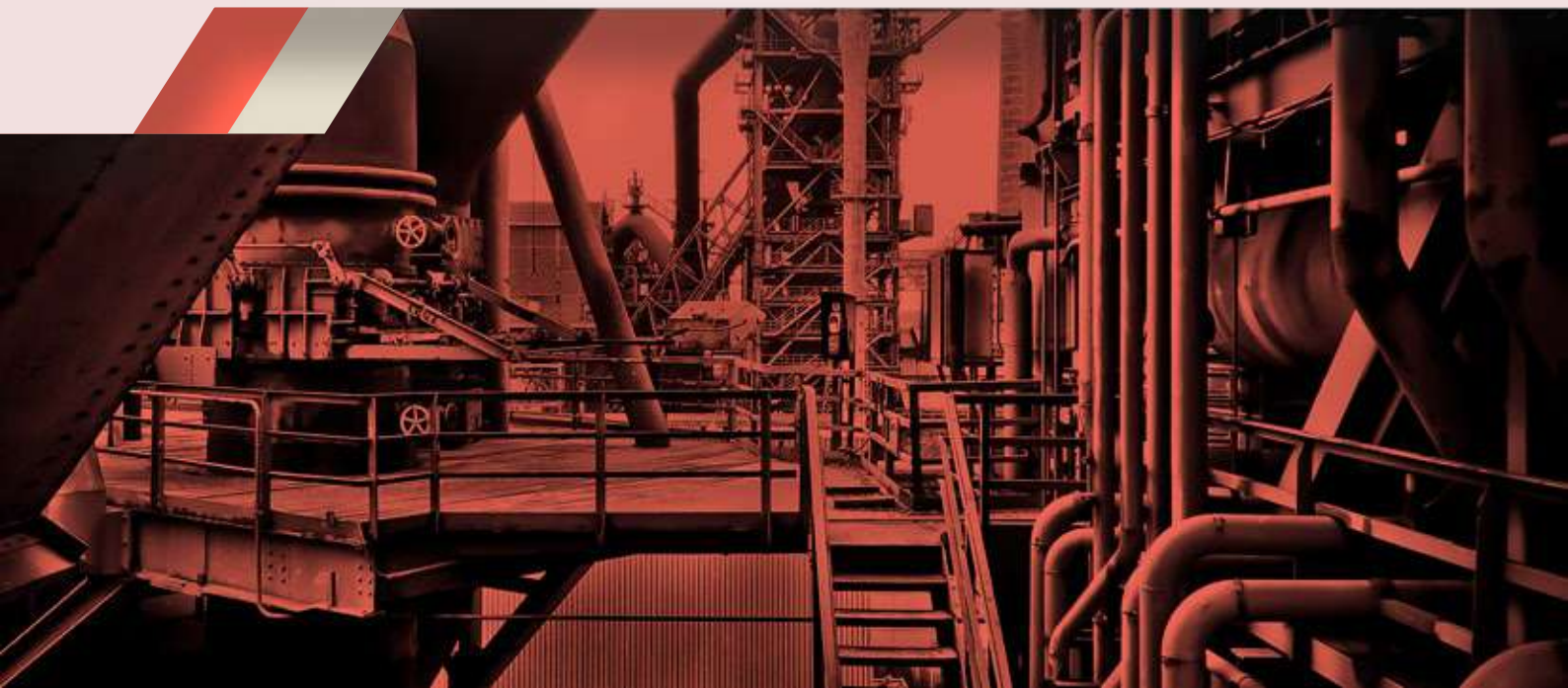


**SGARIA.**

*Trustable for life*



# Conveyor Belts



# COMPANY PROFILE



## The Sgaria

In addition to the best products, we work objectively and efficiently, with integrity and a sense of urgency to generate the best services.

Check out some of the pillars of our company:

**Customer Focus:** Our customers are the reason for our existence. We are committed to meeting your demands on site and time required;

**Safety:** We are strict in meeting our standards, valuing the safety of our customers and contributors;

**Quality Results:** We seek to maximize results by valuing quality in every detail of our operation;

**Teamwork:** Together we achieve our goals, acting in a shared way will more easily achieve achievements and good results, sharing achievements and results.

## Certificates

By bringing together technical force with design and experience, Sgaria has all the documentation necessary to deliver a certified quality product.





## Sgaria Hong Kong

**Address:**

10 / F, Pilkem Commercial Center, 8  
Pilkem Street, Jordan, Kowloon, Hong Kong  
VAT CODE: 2288999



## Sgaria EUA

**Address:**

175 SW 7th Street – Unit#1515  
Miami – FL 33130  
Phone: +1 786 773 4767  
VAT CODE: 83-1661307



## Sgaria China

**Address:**

Business Center in Mirae Asset Tower, 166  
LujiAzui Ring Road 20Floor  
Phone: +852 (3) 6789958  
VAT CODE: 91310115MA1K4CN75C



## Sgaria Brasil

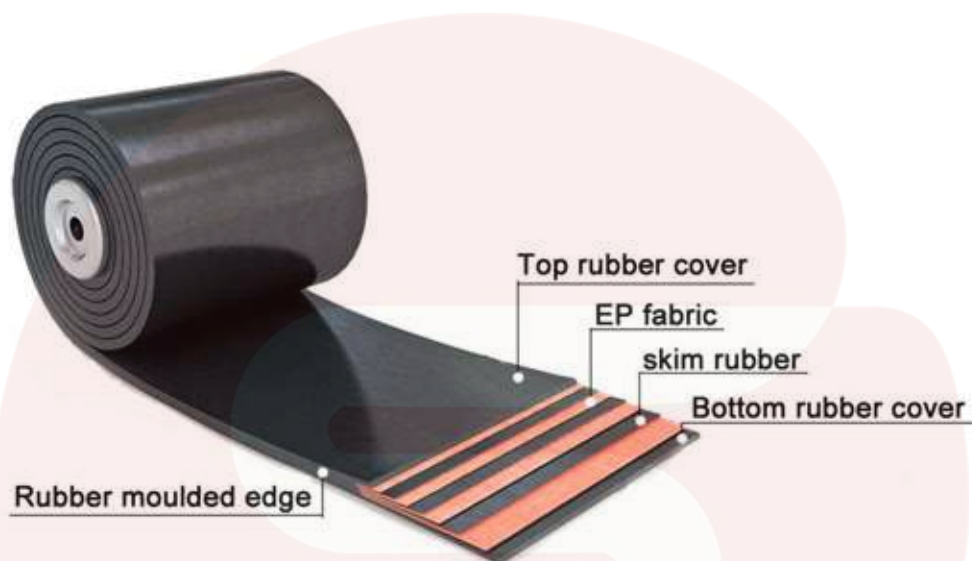
**Address:**

VITÓRIA-ES  
e-mail: comercial.ind@sgaria.com  
Telephone: +55 27 2142-5884  
CNPJ: 28.446.398/0001-03



To meet various needs from our customers all over the world, Sinoconve mainly manufacture textile ply conveyor belting, facing industries like mining, crusher plant, cement, steel, construction and package handle throughout the world.

Sinoconve multi-ply conveyor belting provide surpassing value for money to help our clients grow their business worldwide. Extensive producing technology and rich working experience enable us to manufacture high quality conveyor belts, excellently resisting to impact, abrasion, tear, cut, heat, fire, cold, oil and grease.



### 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  $-40^{\circ}\text{C}$  to  $300^{\circ}\text{C}$ , combustible, oily and cold.



**DIN-Y 1000mm EP400/3 4+2 9mm 300m Moulded edge**



<b>Cover Rubber grade</b>	8MPA,10MPA,12MPA,15MPA 18MPA,20MPA,24MPA,26MPA	DIN-X,Y,W RMA-1,RMA-2 N17,M24
<b>Belt width (mm)</b>	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"
<b>Tensile strength</b>	EP315/3,EP400/3,EP500/3,EP600/3 EP400/4,EP500/4,EP600/4 EP500/5,EP1000/5,EP1250/5 EP600/6,EP1200/6	330PIW, 440PIW
<b>Top+Bottom thickness</b>	3+1.5, 4+2, 4+1.5, 4+3, 5+1.5,	3/16"+1/16", 1/4"+1/16"
<b>Belt thickness</b>	3mm,4mm,5mm,6mm,7mm,8mm,9mm,10mm,12mm,15mm,20mm,25m m	
<b>Belt length</b>	10m,20m,50m,100m,200m,250m,300m,500m	
<b>Belt edge type</b>	moulded(sealed) edge or cut edge	

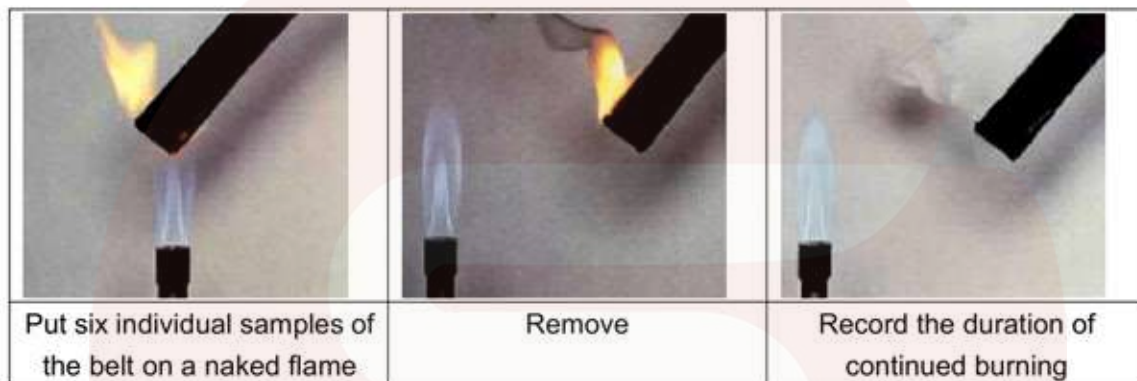
To transport combustible materials like coal dust, gas and fertilizer, it is of crucial importance to choose fire resistant conveyor belts

Flame retardant conveyor belts are static electricity conductive and self-extinguishable. Therefore it is applicable in a wide variety of ATEX conditions including mining, wood, paper & pulp, sugar & food, recycling and chemical & fertilizer plants.

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

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:



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.

## 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 150mm<sup>3</sup>, 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

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 carcass separation and splice failure. Sinoconve heat resistant conveyor belts select heat resistant compounds and innovative structure to solve these problems.



## 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℃	≤125℃	≤150℃	≤175℃
		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

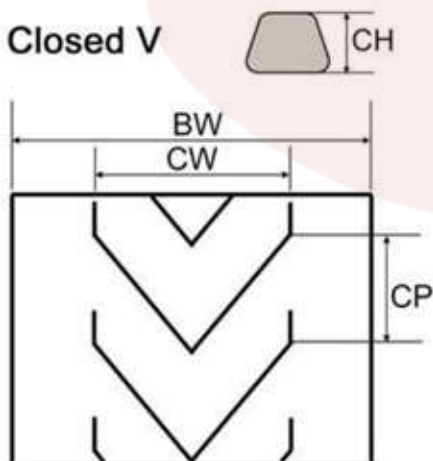
Chevron conveyor belts are used on slope angles up to approx. 30° for slightly rolling materials such as gravel and coal and up to approx. 40° for sticky materials such as wet sand and earth. Patterned conveyor belts are also a highly effective belt for conveying packages such as sacks and bales.



## Product advantage of chevron conveyor belts:

- The cleats are moulded and vulcanized in one single process together with the base belt of patterned conveyor belts.
- Profile conveyor belts allows the use of smaller pulley diameters
- High quality cover rubber compound is excellent resistant to abrasion

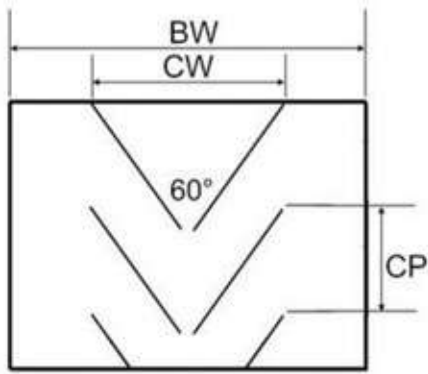
Closed V



Mould no.	CH mm	CP mm	CW mm	BW mm
C5P230	5	230	260	360-1000
C5P230	5	230	300	400-1000

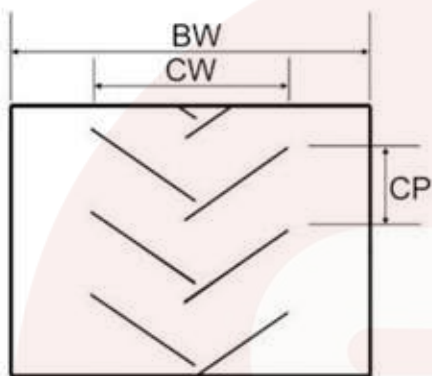


### Open V



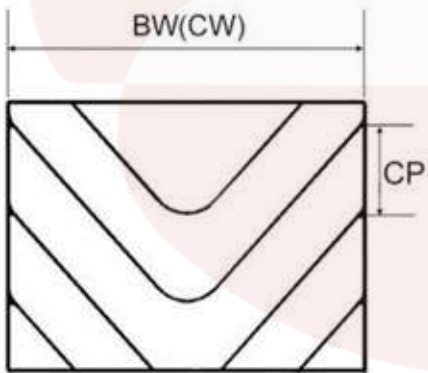
Mould No.	CH mm	CP mm	CW mm	BW mm
C15P250	15	250	385	485-1000
C15P330	15	330	600	700-1200

### Open V



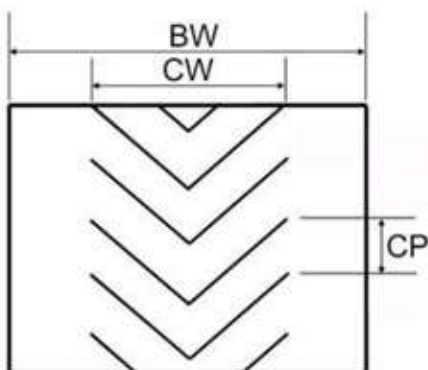
Mould no.	CH mm	CP mm	CW mm	BW mm
C12.7P200	12.7	200	914.4	400-1200

### Closed V


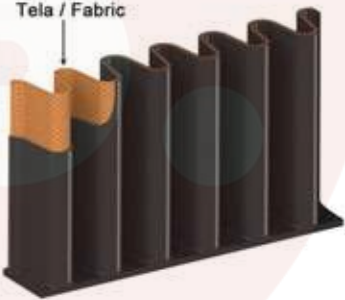
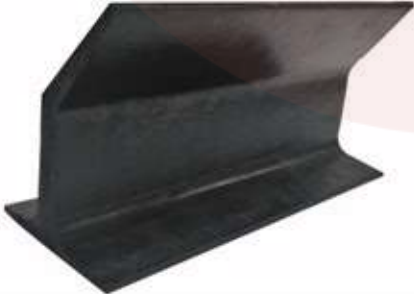



Mould No.	CH mm	CP mm	CW mm	BW mm
C13.5P200	13.5	200	660	760
C13.5P200	13.5	200	800	900

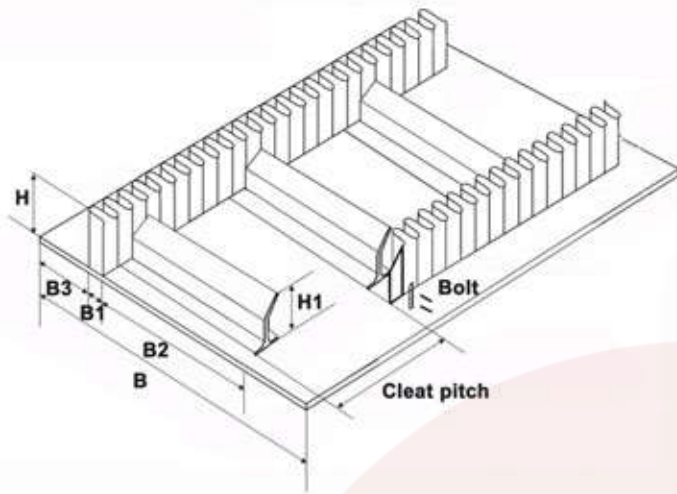
### Closed V



Mould No.	CH mm	CP mm	CW mm	BW mm
C6P80	6	80	655	400-1000
C6P80	6	80	800	400-1200
C11P80	11	80	1000	400-1200

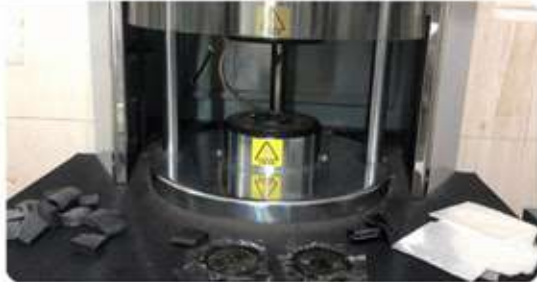

	<ul style="list-style-type: none"> <li>-- Sidewall conveyor belts are composed of three parts: base belt, sidewall and cleats</li> <li>-- Possible to convey at steep angle with big capacity in a limited space</li> </ul>
<ul style="list-style-type: none"> <li>-- Special treated steel mesh inserted into both top cover and bottom cover, creating an excellent combination of longitudinal flexibility and transverse rigidity.</li> <li>-- The entire steep angle conveyor belts are highly durable, low elongation and long lasting</li> </ul>	
	<ul style="list-style-type: none"> <li>-- Sidewall is hot vulcanized on the base belt</li> <li>-- High quality rubber to guarantee sidewall withstand highly stress and repeated flexing</li> </ul>
<ul style="list-style-type: none"> <li>-- Fabric inside sidewall perfectly combine flexibility and strength to effectively avoid torn</li> <li>-- Sidewall height ranges from 40mm to 400mm</li> </ul>	
	<ul style="list-style-type: none"> <li>-- Cleats are also hot vulcanized on the base belt</li> <li>-- Fabric inside cleats protect cleats from deformation caused by impact.</li> </ul>
<ul style="list-style-type: none"> <li>-- Cleats are the main part to carry materials in a high capacity and steep angle</li> <li>-- Available with TC or TCS type</li> <li>-- Special compounds to extremely avoid deformation caused by impact.</li> </ul>	

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 creates 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 durable, 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			
	120	110			
650	100	90	50	350	100
	120	110			
	160	140			
800	120	110	50	460	120
	160	140			
	200	180	75	410	
1000	160	140	75	550	150
	200	180			
	240	220			
1200	160	140	75	690	180
	200	180			
	240	220			
	300	260			
1400	200	180	75	830	210
	240	220			
	300	260	100	780	
	400	360			

**Step 1: Raw material inspection**

	
<p><b>Rubber compound test</b> Moving die rheometer analyzes the characteristics of Rubber Compound</p>	<p><b>EP fabric test</b> Tensile strength test and elongation test when broken.</p>

**Step 2: Advance equipment to guarantee quality from the details**

	
<p><b>Calender process</b> 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.</p>	<p><b>Forming process</b> The forming tension is even between different plies, which can avoid wrinkled fabric and guarantee an even thickness of belt core.</p>

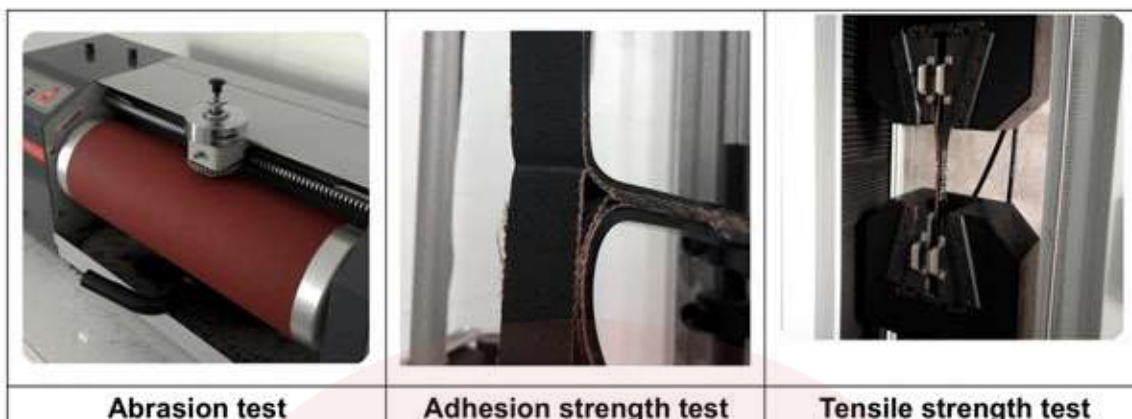
**Step 3: Finished belts inspection**

We 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.

		
<p><b>Length and surface inspection</b></p>	<p><b>Thickness inspection</b></p>	<p><b>Width inspection</b></p>

## Step 4: Technical data test

We 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.



## Step 5: Issue quality test report

<b>Test certificate</b> <b>Rubber conveyor belt acc. to DIN 22102</b>			
--	--	--	--

<b>1. Belt construction</b>	1400,ST-1250,5/5,Gr.DIN-Y		
1.1 Belt manufacturer		1.4 Customer:	
1.2 Belt No.	17610	1.5 Order No.	12122 dated 6th Apr,2017
1.3 Belt length	320m		

2 Belt dimensions	Standard	Unit	Required value	Tol.	Observed value
2.1 Belt width	As per order	mm	1400	+/-12	1410
2.2 Belt thickness	As per order	mm	14.4	+1.4/-1.0	14.6
2.3 Top cover thickness	As per order	mm	5		5.1
2.4 Bottom cover thickness	As per order	mm	5		5.1

3 Cover rubber					Top	Bottom	
4.1 Tensile strength	DIN 22102	N/mm <sup>2</sup>	IV	12	14.1	13.5	
4.2 Elongation at break	DIN 22102	%	IV	250	540	530	
4.3 Tensile strength / at 70°C for 7 days	Change	Change %	IA	+/-25	-7.5	-8.1	
4.4 Elongation at break / at 70°C for 7 days	Change	Change %	IA	+/-25	-12	-10.4	
4.5 Hardness	DIN 22102	Shore A		65	+/-5	65	66
4.6 Abrasion	DIN 22102	mm <sup>3</sup>	IA	175		173.3	

4 Belt					
5.1 Adhesion between top cover and fabric	DIN 22102	N/mm	IV	5	5
5.2 Adhesion between bottom cover and fabric	DIN 22102	N/mm	IV	5	5
5.3 Full belt tensile strength	DIN 22102	N/mm	IV	500	500
5.4 Elongation at 10% reference load	DIN 22102	Change %	IA	2	2

Above test result is related to the lab sample



/SGARIAGROUP

