

Sole Distributor For  
**SOUTH INDIA**



HEAVY DUTY CONVEYOR BELTS



**BEST CONVEYOR BELTS**<sup>TM</sup>

GENUINE RUBBER CONVEYOR BELTING

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CONVEYOR BELT SUPPLIER FOR METAL CRUSHER, FOUNDRY & RICE MILL

# MISSION STATEMENT



“ Bridging consistent quality consciousness, committed effort and dedicated service to give customers total value for their money ”

## - OUR PRINCIPALS

Established in the year 1992. Who is having an in-house testing facility for finished product coupled with skilled and well qualified engineers, to manufacture conveyor belts ideally suitable for various applications like steel, Coal, Mining, Food Processing, Cement, Fertilizers, Paper Industries etc.

## HIGH QUALITY CONVEYOR BELTS & TRANSMISSION BELTING.

**PLYCON** products are manufactured with stringent quality controls. Our Research & Development on day to day basis is on product Quality improvement and development of new design system.

**PLYCON** today occupies pride place in OEM's, Power Plants, Cement, Textiles, Paper, Steel & Agricultural based industries.

## CONVEYOR BELTING

We supply the conveyor belts with the following reinforcement material coupled with the most appropriate cover grades for various applications and extraordinary service conditions.

1. Synthetic fabric reinforced : Nylon/Nylon-N/N Polyester/Nylon-EP
2. Cotton / Cotton reinforced :

**We offer belts in width ranging upto 1600 mm**

### IMPROVED TROUGHING RESULTING IN HIGHER CAPACITY UTILIZATION :

Due to excellent transverse flexibility of **PLYCON** synthetic conveyor belt, deep troughing of carcass is possible which increase volumetric transfer capacity.

### PLYCON EXCELLENT ROT RESISTANT CONVEYOR BELTS :

Eliminates problem of mildew action on carcass, ensuring total protection against to damaging effects of moisture, even under severe wet conditions where in fabric deterioration is virtually eliminated.

### HIGH ADHESION LEVELS

This is possible by utilising the inherent nature of chemical bonding, which provides adhesion between cover to ply to ply. Consequently, it contributes to edge wear resistant higher edge and carcass consolidation and eliminates cover peeling and ply separations.

## GREATER IMPACT RESISTANCE

The increased inter ply rubber thickness maximizes the impact absorption and reduces carcass damage. The Outstanding impact resistance makes the use of breaks redundant.

## SUPERIOR EDGE DESIGN

Since synthetic fabric is totally not resistant, the cut edge construction and the hardwearing exposed nylon give greater resistance to edge damage. Hence, **PLYCON** synthetic conveyor belts are recommend with cut edge construction, as they will perform effectively even under the most adverse environments.

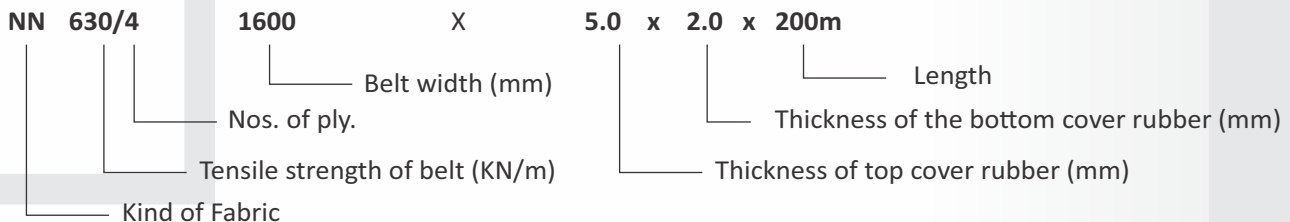
## CONTROLLED BELT GROWTH

**PLYCON** synthetic conveyor belt is manufactured with the best quality of fabrics to minimize elongation and to ensure controlled belt growth in service.

## STORAGE

**PLYCON** synthetic conveyor belts are resistant to moisture and they can be stored outdoors in original packaging for limited periods only, as longer periods may results in premature ageing of the belting, However, the stored belts should not be exposed to direct sunlight, oil, grease, solvents and acids as this can damage the belts.

## DESIGNATION



## CLASSIFICATION FROM COMPOUND AND USAGE

### HEAT RESISTANT CONVEYOR BELT

In general it is economical to adopt a heat resistant belt, if the temperature of the material to be carried is over 60C (140F). As the damage of the cover depends on the temperature and nature of transported material, the proper selection of a belt to fit particular operating condition is important. Especially the relation of the temperature between the material and belt surface should be considered when selecting the belt.

When transporting material of high temperature, the temperature of the belt surface rises by contact of the material, but on the return journey the heated surface gets cooled naturally by air so that the surface temperature becomes considerably cooler than that of the material. The temperature depends on kind size, temperature, quantity of material to be carried, belt speed, belt length etc. The belt is designed for transporting cement clinker cokes, sintered ores, soda ash, chemicals, fertilizer and etc.

### OIL RESISTANT CONVEYOR BELT

Oily material causes the ordinary rubber covers of the belt to swell and peel off, which results in complete breakdown in the conveyor system. This belt compounded of oil resistant quality synthetic rubber had good resistance to the damaging effects encountered when conveying oil contaminated material.



### FOOD CONVEYOR BELT

This belt is made for use where foodstuffs are handled. It is compounded to provide non-toxic, tasteless and odourless properties.

### FIRE RESISTANT CONVEYOR BELT

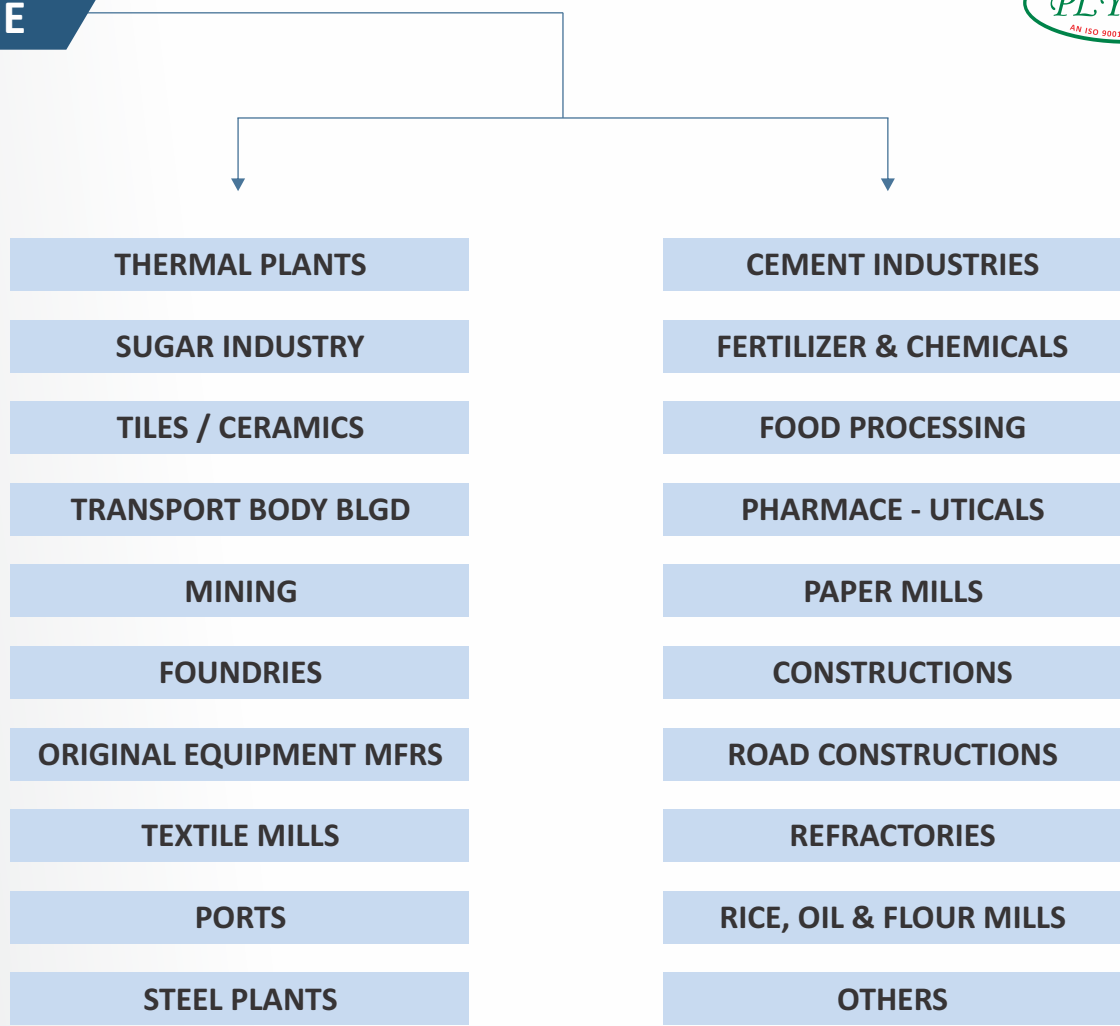
This belt is a prerequisite to prevent fire risks in coal mines where not easily accessible and to reduce maintenance of the conveyors which may be damaged by flame at the blast furnaces of iron works.



### COLD RESISTANT CONVEYOR BELT

This belt is made especially for use at the low temperature (-50C) where a belt with ordinary rubber covers cannot withstand.

## USAGE



## Strength Classes and Number of Piles

STRENGTH CLASS	2 - PLY	3 - PLY	4 - PLY	5 - PLY	6 - PLY
160	160/2				
250	250/2	250/3			
315	315/2	315/3	315/4		
400	400/2	400/3	400/4	400/5	
500		500/3	500/4	500/5	500/6
630		630/3	630/4	630/5	630/6
800		800/3	800/4	800/5	800/6
1000		1000/3	1000/4	1000/5	1000/6
1250		1250/3	1250/4	1250/5	1250/6
1500			1500/4	1500/5	1500/6
1800			1800	1800/5	1800/6
2000			2000	2000/5	2000/6
2500			2500		2500/6

When you require other classes, please consult us.

# STANDARD CONVEYOR RUBBER THICKNESS



MATERIAL HANDLED	TOP COVER						BOTTOM COVER					
	Belt Length						Belt Length					
	Below 40m		30 - 150 m		Over 120m		Below 40m		30 - 150 m		Over 120m	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
Non - Abrasive: Fine Coal, Wood Chips, Grain chips, Ash Cement, etc	3.2	1/8	1.6	1/16	0.8	1/32	1.6	1/16	0.8	1/32	0.8	1/32
Slightly Abrasive: Sand, Earth, Bituminous Coal, Clay, Salt etc	4.8	3/16	3.2	1/8	3.2	1/8	1.6	1/16	1.6	1/16	1.6	1/16
Very Abrasive: Undressed Coal, Crushed Stone, Gravel Coke, etc.	6.4	1/4	4.8	3/16	4.8	3/16	3.2	1/8	1.6	1/16	1.6	1/16
Extremely Abrasive: Limestone, Metal Ores, Slag Iron, Glass etc.	9.6	3/8	6.4	1/4	6.4	1/4	4.8	3/16	3/16	1/8	3.2	1/8

# SPECIFICATION AND MINIMUM PULLEY DIAMETER

## FABRIC CONVEYOR BELT

Belt Tensile Strength Min. (kg/cm)	Allowable Tension ratings Max. (kg/cm)	Kinds of Carcass	Recommended Minimum Pulley Diameter (mm)				
			No. of Plies				
			2	3	4	5	6
160	16.0	NN	200				
		EP	200				
250	25.0	NN	200	300			
		EP	300	400			
315	31.0	NN	200	300	350		
		EP	300	400	450		
400	40.0	NN	250	300	400	450	
		EP	350	400	500	550	
500	50.0	NN	250	350	400	450	500
		EP	350	450	550	600	700
630	63.0	NN	300	400	450	500	550
		EP	400	500	600	700	800
800	80.0	NN		450	500	550	600
		EP		600	700	750	850
1000	100.0	NN		500	550	600	650
		EP		700	800	850	950
1250	125.0	NN		600	650	700	750
		EP		800	900	1000	1050
1500	150.0	NN			750	800	850
		EP			1000	1150	1300
1800	180.0	NN				900	1000
		EP				1300	1400
2000	200.0	NN				950	1050
		EP				1400	1500
2500	250.0	NN					1150
		EP					1650

\* Tail, Take -up Pulley : Diameter of Tables X 0.85

Snap, Bend Pulley : Diameter of Table x 0.70

## SELECTION OF RUBBER COVER



Selection of rubber cover should be done by taking into account the type and size of materials to be conveyed and the operating condition of the belt. PLYCON standard rubber conveyor belting is available in the following grades.

APPLICATION	MATERIALS REFERENCE
<p><b>GENERAL PURPOSE BELTING 1891 (PART I) LATEST</b></p> <p><b>M-24 GRADE</b> it has high tensile strength superior resistance to abrasion, cut and gouging, Recommended for transporting abrasive material</p> <p><b>N-17 GRADE</b> Suitable for transporting moderately abrasive materials.</p>	<p>Iron Ore, Coal Copper, Limestone, Lignite, etc.</p> <p>Sand, Cement, Wood Chips, Dry Pulp, etc.</p>
<p><b>Heat Resistance Belting IS 189 I (Part II) latest</b></p> <p><b>HR (T-I) GRADE</b> Suitable for transporting hot materials (Up to 125 degree centigrade for coarse materials and 100 degree centigrade for fines)</p> <p><b>SHR (T-2) GRADE</b> Suitable for transporting hot materials (Up to 150 degree centigrade for coarse materials and 125 degree centigrade for lines)</p>	<p>Foundry Sand, Soda ash, Hot Limestone, Cement</p> <p>Clinker, Ash handling Hot Coke etc.,</p>
<p><b>Oil Resistant Belting IS 1891 (Part III) latest</b></p> <p>Good resistance to mineral, Vegetable and animal oil and fats etc.,</p>	<p>Soya Beans Oil, Fish Oil, Coffee, Rice, Oil, etc.,</p>
<p><b>Hygienic Conveyor Belting IS 1891 (Part IV) latest</b></p> <p>These belts with food grade rubber covers do not odour and do not stain the materials to be conveyed and thus are particularly suitable for food Processing industries.</p>	<p>Tea, Tobacco, Salt, Confectioneries, Fruit &amp; Food processing, etc.,</p>
<p><b>Fire Resistant (FR) Grade IS 1891 (Part V) latest</b></p> <p>Recommended for use in coal and such types of mines enveloped in fire. Rubber covers are fire resistant and antistatic.</p>	<p>Coal, Coal sulphur, etc</p>

Conveyor belt with other cover grades as per customer specification can be supplied on request



## Minimum Information required in designing a conveyor belt



- ✦ Belt width in mm
- ✦ Number of piles
- ✦ Types of fabric
- ✦ Duty type
- ✦ Thickness of rubber cover on top in mm
- ✦ Thickness of rubber cover on bottom in mm
- ✦ Grade of rubber cover
- ✦ Length of belt required in mtrs
- ✦ Ends of the belt (open or endless)
- ✦ Belt inclination Angle

## SPECIAL PURPOSE BELTING



### CHEVRON TYPE CONVEYOR BELTS

#### Application :

For carrying cool and mineral ores, powdery materials like sand, fine coal and grain as well as materials in bags along routes.

#### Features :

- ✦ Can carry loose materials at angle 30 - 35 degree and bagged materials up to 40 degrees.
- ✦ Cleats angle and pitch are designed for smooth travel over return idlers.
- ✦ Cleats and top cover rubber are mono block molded for strength.



### RUBBER SHEETS

#### Usage :

Conveyor belt skirting for sealing and laggings on conveyor pulley shells to keep belt straight run without slippage in wide applications.

(Diamond Sheets)



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