AGOLA Brothers

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» Product Catalogue

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Conveying Ahead

QUALITY POLICY

- To become the highest in production and lowest cost producer of Conveyor Belts.
- Our Motto is to serve our customers at the best or our knowledge by meeting its stated & implied needs and providing him value for his money.
- We will upgrade manufacturing technology and continuous development in quality so meet challenges in future. We will strive to continual improvement through strong customer focus and review suitability of our quality objectives as well as implementation of our QMS at pre-defined intervals.

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CONVEYOR BELTS

GENERAL PURPOSE BELTING

• GRADE-M24

This Grade is Specially compounded Rubber Cover recommended for good resistance to cutting and gouging and conforms to abrasion, loss value. This recommended for conveying, heavy, sharp, highly abrasive materials like metallic ores, granite, limestone, coal, blast, furnace, slag and clinker etc. Belts made with this grade are as per international Standards IS 1891 (Part-1)

• GRADE-N17

This is recommended for compounded rubber cover grade handling moderately abrasive material. Conforms to the maximum abrasion loss value specified for Grade like sized coal, ash, chalk, bauxite etc. Conforms to international Standards IS 1891 (Part-1)

HEAT RESISTANT BELTING

• GARDE HRT-I

Compounded rubber cover grade recommended for handling material like alumina, ash, chemical etc. having material temperature over 65°C for coarse and 120°C for fine material. Conform to International Standards IS 1891 (Part-II) for HR-Type T-I Grade.

• GRADE HRT-2

Compounded rubber cover grade to provide adequate heat resistance for handling material temperatures over 120°C for coarse and 150°C for fine materials. Conforms to international Standards IS 1891 (Part-II) for HR Type T-2 Grade.

• GRADE HRT-3

Compounded rubber cover grade to provide adequate heat resistance for handling material temperature over 150°C for coarse and 180°C for fine materials. Confirms to international Standards IS 1891 (Part –II) for HR Type T-3 Grade.

• GRADE UHR 200

Specially compounded rubber cover grade provided excellent heat resistance & is moderate abrasion wear resistance characteristic & recommended for material temperatures over 200°C for fine materials.

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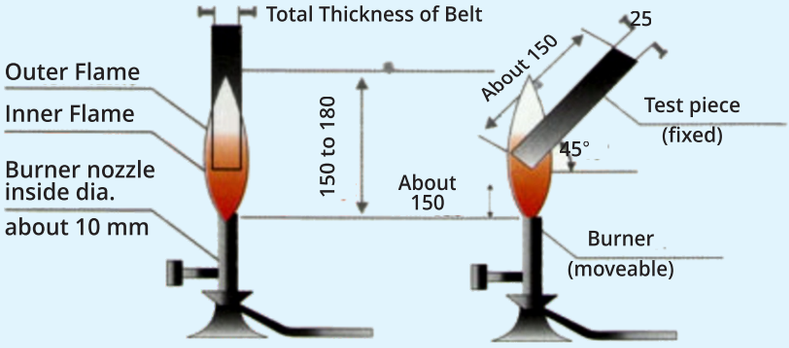
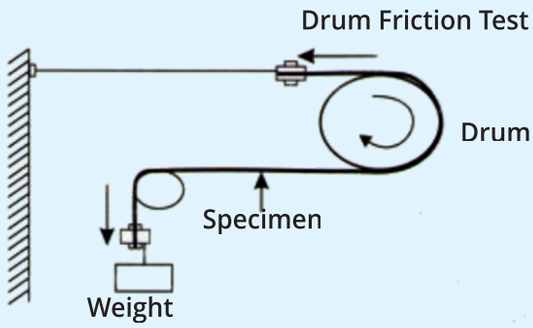
CONVEYOR BELTS

FIRE RESISTANT BELTING

• GRADE –FR

These are Fire Resistant and Antistatic Properties. Grade is recommended for use where Fire Hazard exists, eg. Thermal Plants, Underground Mines. The important characteristic is self- extinguishable cover rubber and meeting the drum friction test. Conforms to International Standards IS 1891 (Part-V)





OIL RESISTANT BELTING

• GRADE-OR

Composed of Synthetic Rubber Compounds. This is resistant to Mineral, Vegetable, Animal Oils and Fats. As per IS 1891 (Part-III)

HYGIENIC BELTING

• GRADE HYGIENIC

Specially designated with Nontoxic Rubber Compounds for use in the food processing and Pharmaceutical Industry As per International Standards IS 1891 (Part-IV)

ELEVATOR BELTS

PROPER BELTS WIDTH

- For buckets upto 16' (400mm) wide, the belts should be at leats 1" (25mm) wider than the buckets.
- For buckets wider than 16" (400mm) width, the belt should be at least 2" (50mm) wider than the buckets.

PROPER PULLEY FACE WIDTH

- For belts upto 12" (300mn) wide, the pulley face width should be at least 1" (25mm) wider than the belt.
- For belts greater than 12" (300mm) width, the pulley face width should be at least 2" (50mm) wider than the belt.

Width Range	Up to 1600 MM
Length	Open of Endless upto 400 Mtrs. In Single Length
Fabric Plies	2 to 9 Plies
Cover Thickness	As per customer's requirements.
Edges	Cut Edge & Moulded Edge (Protected Edge)
Skim Coating	The belts are processed with all its fabric plies skim coated with superior quality Rubber Compound.
Breaker Ply	A special woolen fabric between the cover & carcass improves cushioning, the gauging and tear resistant properties of cover rubber & protects the carcass from impact damages.
Designation	Available in three types: • General Duty • Heavy Duty • Extra Heavy Duty
Fabric Polyester Nylon	EP100, EP125, EP150, EP200, EP250, EP300, EP400, Ep450
Nylon Nylon	NN100, NN125, NN150, NN200, NN250, NN300, NN400 & Nn450
Cotton	28oz, 32oz, 36oz, 42oz & 48 oz

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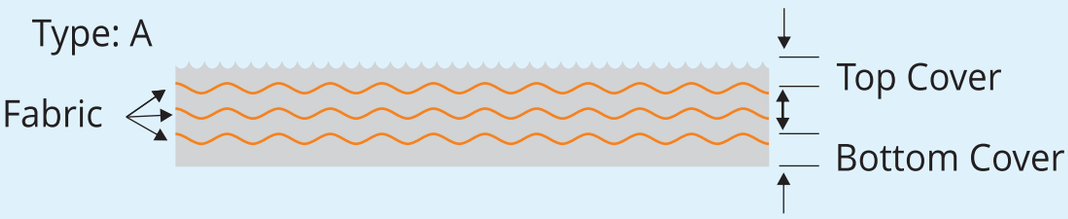
SPECIAL CONVEYOR BELTS

IMPRESSION CONVEYOR BELTS

Belt cover with a textured pattern impressed, can be made on either the top cover or both covers depending on the customer's requirements. Suitable for material carried in the agriculture field or on light duty application.

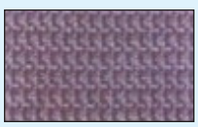


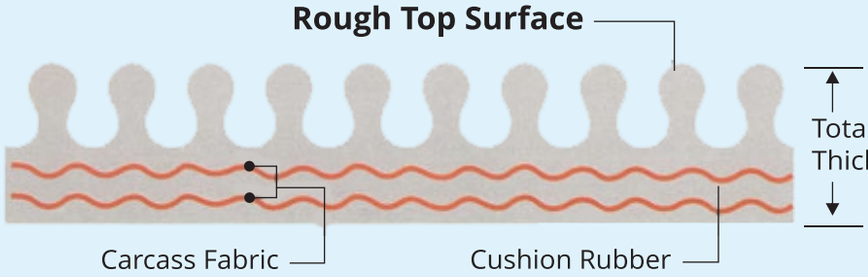
ROUGH TOP CONVEYOR BELTS

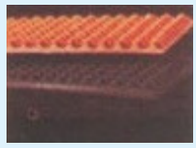
- **Application :** For transporting light weight goods, rough top belt is designed either as inclined or horizontal as suitable for fragile or deformed materials and packed goods such as Glass. Papers, Bags Boxes or Cartons to a maximum of 35 degrees.

- **Construction:** 2 OR 3 Ply constructions with CVT edges and a Carcass of synthetic EP Fabric. The Surface.

Properties: Texture resists the tendency for material to roll back down the Conveyor. Black top cover is recommended for utility type incline type service while the Tan cover is suggested for transporting packaged food products where an odourless. Non-Toxic Non-marking Belt is a necessary.







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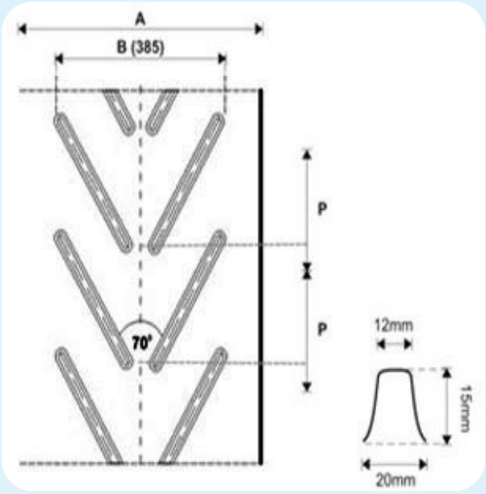
CHEVRON BELTS

Neelkanth Beltings Chevron Cleated Conveyor Belt pattern types suit most applications and have the advantage of being integrally molded as part of the top surface and are suitable for joining by vulcanizing or by mechanical fasteners.

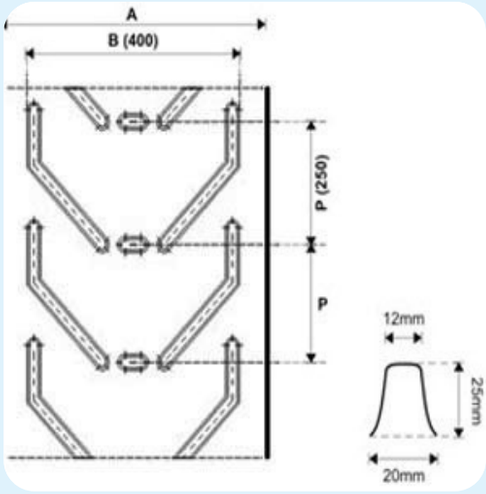
Chevron Cleated Conveyor Belt makes increased angles of 30° to 40° inclination possible. The advantage of high angle inclination is that less space is needed to reach desired conveying height.

Our range of Chevron Cleated Conveyor Belt is primarily used in cases when the angle of incline is too steep for a smooth conventional conveyor belt. These belts are fitted with integrally molded cleats that prevent the material from sliding backwards. Designed for excellent and smooth return side support, these Chevron Cleated Conveyor Belts generally find application for carrying heavy material from bulk solids to unit loads.

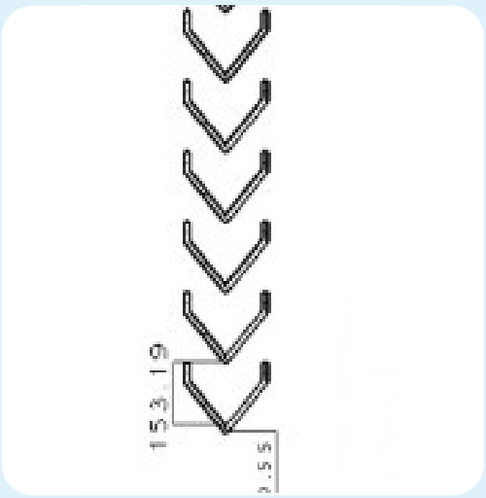
CHEVRON N15



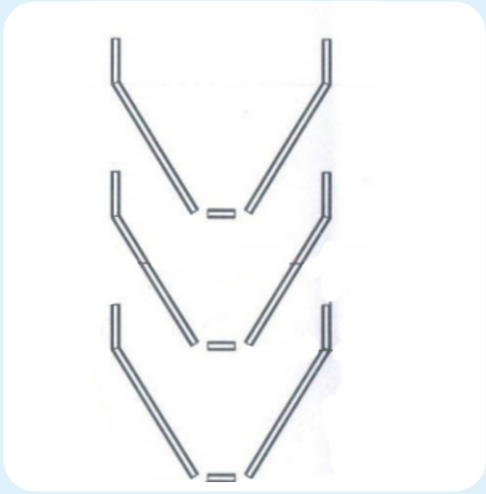
CHEVRON N25

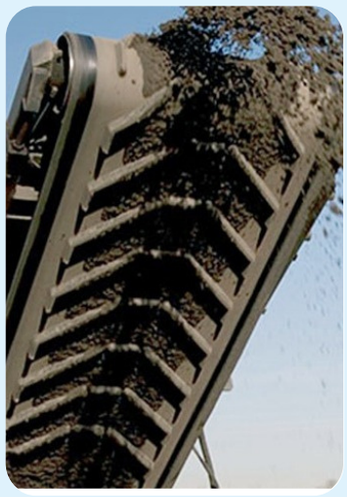


CHEVRON N15-01

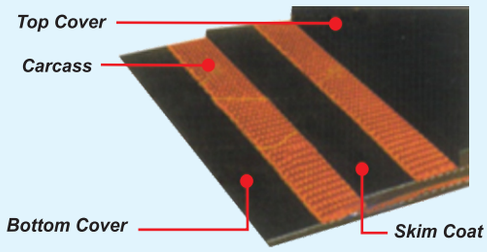


CHEVRON N25-02





CONVEYOR BELTS CONSTRUCTION



- **Cover Rubber (Top Cover & Bottom Cover)**
- **Carcass**
- **Rubber Skim**
- **The Reinforced Breaker Fabric is used for extra protection**

• Cover Rubber

Covers of natural of synthetic rubber are used in Conveyor Belt productions to save base Carcass from wear, impact, deterioration and other influences. They are compounded to meet particular service conditions as Bras ion, Oil, Heat, Flame, Chemical, Resistant and Antistatic, etc, cover type quality and thickness are matched to service life of belt involved. Cover formulation for Belt manufacturing is determined by material to be carried and environment in which belt will operate.

• Carcass

This consists one or more piles of textile fabric with rubber on each side to give adhesion and flexibility commonly used fabrics are, Nylon Polyester and Cotton, strength to move loaded belt and absorb the impace of impinging material being loaded into Conveyor Belt.

• Rubber Skim Coat

Extra layer compound between plies is called Skim Coat. These are contributors to internal Adhesions, Impact Resistance and play a significant role in determining belt load support and trough ability. Improper Skims can adversely affect belt performance and lead to ply separation.

• Breaker Fabric:

A special woven fabric between cover and carcass improves cushioning, the gouging and tear resistant properties of cover rubber and protects Carcass from Impact damages. This construction is recommended for use in belts handling primarily crushed and sized material which gives severe impact to belt when lumps drop at a loading point.

INTERNATIONAL STANDARDS

Standard & Grade	Minimum Tensile Strength (Mpa)	Minimum Elongation at Break (%)	Maximum Abrasion Loss (mm^3)
DIN -X	25	450	120
AS-M	24	450	125
IS-M24	24	450	150
BS-M24	24	450	150
SANS-M	24	450	120
SANS-N	20	400	150
DIN-Y	20	400	150
AS-N	17	400	200
IS-N17	17	400	200
BS-N17	17	400	150
RMA I	17	450	150
JIS-S	18	450	200

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SELECTION CHART

Belt Designation		Full Belt Tensile Strength	Maximum Recommended Working Tension		Nominal Carcass Thickness	Nominal Carcass Weight	Maximum Belt Width (mm) For Adequate load Support Bulk Density (TIM')		Max	Max	Maximum Belt Width (mm) For Adequate Troughing	
Type	Rating	KN/m	Vulcanized Splice	Mechanical faster:' Lers Kn/m	(mm)	Kg/cm/mtr	upto 1.0	upto 1.5	upto 2.5	20 Deg. Idlers	30 Deg. Idlers	45 Deg. Idlers
General Duty	200/2	200	20	20	2.4	0.022	650	500	–	300	400	500
	250/2	250	25	25	2.5	0.023	650	600	–	300	400	500
	315/2	315	31	31	2.7	0.024	900	650	500	300	400	500
	315/3	315	31	31	3.1	0.025	1000	800	650	400	500	500
	400/2	400	40	40	2.8	0.025	1000	800	650	400	500	500
	400/3	400	40	40	3.4	0.027	1200	900	650	500	500	500
	500/3	500	50	--	3.4	0.030	1200	900	650	500	500	500
	630/3	630	63	--	3.5	0.031	1200	1000	800	500	500	500
Heavy Duty	200/2	200	20	20	2.8	0.026	800	650	500	400	400	500
	250/2	250	25	25	3.0	0.028	800	650	500	400	400	500
	315/2	315	31	31	3.1	0.029	1000	800	650	400	500	500
	315/3	315	31	31	3.6	0.030	1200	1000	800	500	500	500
	400/2	400	40	40	3.2	0.030	1200	1000	800	500	500	500
	400/3	400	40	40	3.6	0.032	1200	1000	800	500	500	650
	400/4	400	44	- -	4.5	0.044	1200	1000	800	500	500	650
	500/3	500	50	- -	3.7	0.034	1400	1000	800	500	500	650
	500/4	500	55	- -	4.5	0.046	1400	1000	900	500	500	650
	630/3	630	63	- -	3.9	0.036	1600	1200	1200	650	650	800
	630/4	630	70	- -	5.0	0.049	1600	1400	1400	650	800	900
	800/4	800	90	- -	5.4	0.051	1600	1600	1400	650	900	900
	1000/4	1000	110	- -	5.8	0.054	1800	1600	1800	800	800	1000
	1250/4	1250	140	- -	6.6	0.066	1800	1800	1800	800	900	1000
	1250/4	1250	140	- -	6.5	0.062	1800	1800	1800	800	900	1000
					7.1	0.080	1800	1800	1800	900	900	1000
Extra General Duty	400/4	400	44	- -	4.8	0.058	1200	1000	800	500	500	500
	500/4	500	55	- -	4.8	0.060	1400	1000	900	500	500	500
	630/4	630	70	- -	5.6	0.063	1400	1200	1000	500	500	500
	800/4	800	90	- -	6.0	0.065	1600	1400	1050	500	500	650
	800/5	800	90	- -	6.5	0.063	1600	1600	1200	600	650	800
	1000/4	1000	110	- -	6.2	0.068	1800	1400	1200	600	750	900
	1000/5	1000	110	- -	7.0	0.075	1800	1600	1400	750	900	1000
	1250/4	1250	140	- -	6.8	0.076	1800	1600	1400	750	800	900
	1250/5	1250	140	- -	7.5	0.089	1800	1800	1600	800	900	1000
	1400/4	1400	145	- -	7.2	0.077	2000	1800	1600	750	800	1000
	1400/5	1400	155	- -	8.2	0.089	2000	1800	1800	800	900	1200
	1600/4	1600	180	- -	7.4	0.081	2000	2000	2000	800	900	1000
	16005	1600	180		8.8	0.100	2000	2000	2000	800	900	1200

NOTE:

» In the above belt designation, the first set of figures denote the belt strength in kn/m and the second set of figures denote the number of fabric piles.

» *Denotes that mechanical fasteners are not recommended

• The above figures represent the standard construction of conveyor belts. Special construction can be designed & manufactured against specific requirements.

» The above figure are approximate values and should be taken into account for the purpose of design & estimation. “NB” reserve the right to change the specification/parameters without notice because of future technical developments.

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TRANSMISSION BELTS

Construction Features of Neelkanth Rubber Transmission Belts	
Width:	**25mm to 1200mm**
Length:	**100 mtr Roll length**
Fabrics:	**Hard Cotton ducks/soft cotton ducks/synthetic fabrics**
Plies:	**2 plies to 10 plies**
Type of edges:	**Cut edges and round/folded edges**
Colours:	**Beige, grey, camel, yellow, black and other colours as per customer requirements.**

Special features of Neelkanth transmission belts:

1. Uniformity in Thickness & Width
2. Higher longitudinal & transverse strengths
3. Higher levels of adhesion
4. Controlled elongation
5. Lighter in weight thus consuming less power
6. Improved resistance to flex fatigue test.
7. Available in variety of colours.

Ply Construction No. of plies	Nominal thickness range mm
3	3.9mm
4	5.1mm
5	6.4mm
6	8.7mm
7	9.1mm
8	10.4mm
9	11.7mm
10	13.0mm

Minimum Pulley Diameters (MM) for given belt speeds and belt plies

No. of plies (Cotton fabrics)	**Maximum belt speed**				
	10 (mtr/sec)	15 (mtr/sec)	20 (mtr/sec)	25 (mtr/sec)	30 (mtr/sec)
3	90	100	112	140	180
4	140	160	180	200	250
5	200	224	250	315	355
6	250	315	355	400	450
7	355	400	450	500	560
8	450	500	560	630	710
9	560	630	710	800	900
10	630	710	800	900	1000

Address: First floor, survey No-49,plot no-1 Ankur Chamber, 8-A National Highway , Morbi-363642 .

Phone: +91 9099082995