

Looking toward tomorrow with fresh visions

COVER GRADES

The thicknesses manufactured are 1 to 16 mm,



Advanced Test Lab

"Universal", product development involves the repetition of carefully conducted tests in its most advanced laboratory.

Anil Gupta
President

All Nylon (NN) NOMENCLATURE

Universal All Nylon Conveyor Belts are designed to indicate the minimum full thickness tensile strength and the number of fabric plies in the belt, for eg., All Nylon 500/3 represents a belt having full thickness tensile strength of min. 500KN/m width (= 1275 kg/cm²), incorporating 3 plies of nylon fabric.

Belt Designation		Maximum Allowable Working Tension KN/m	Nominal Carcass Thickness (mm)	Nominal Carcass Weight Kg./cm. Width/mtr.	Maximum Belt Width (mm) For Adequate Load Support (Material Bulk Density) (Kg./m ³)			Maximum Belt Width (mm) For Adequate Troughing (Angle of picking idlers)		
Type	Rating				Upto 800	Upto 1500	Upto 2500	20°	35°	45°
HEAVY DUTY (TYPE B)	630/4	70	5.4	0.052	1800	1400	1200	500	650	800
	800/4	90	5.6	0.054	1800	1600	1400	650	800	900
	1000/5	120	7.0	0.070	1800	1600	1400	700	850	1000
	1250/5	140	7.5	0.076	1800	1600	1400	800	1000	1000

All Cotton (CC) NOMENCLATURE

Fabric Type	Approx. thickness ply (mm)	Approx. weight kg/cm width/mtr.	Av. Breaking Strength of individual fabric N/cm width		Maximum allowable working tension N/cm/ply			
			Warp	Weft	Mechanical Fasteners		Vulcanised Splices	
					Screw Take-up	Gravity Take-up	Screw Take-up	Gravity Take-up
28oz.	1.20	0.012	625	335	44.1	47.1	47.1	52.9
32oz.	1.25	0.014	690	370	52.9	55.9	55.9	60.8
34oz.	1.30	0.017	670	480	52.9	55.9	55.9	60.8

RECOMMENDED MINIMUM PULLEY DIAMETER FOR CONVEYOR BELTS

Carcass Thickness (mm)				Recommended Minimum Pulley Diameter (mm)										
Fabric Type		All Cotton		All Nylon		Percentage of maximum allowable working tension used								
						Upto 30%			Over 30 upto 60%			Over 60 upto 100%		
						Type of Pulley			Type of Pulley			Type of Pulley		
From	To	From	To	From	To	A	B	C	A	B	C	A	B	C
2.0	3.1	2.3	2.7	160	160	125	200	160	125	250	200	160		
3.2	3.9	2.8	3.5	200	200	160	250	200	160	315	250	200		
4.0	5.0	3.6	4.4	250	250	200	315	250	200	400	315	200		
5.1	6.2	4.5	5.5	315	315	250	400	315	250	500	400	315		
6.3	7.8	5.6	7.0	400	400	315	500	400	315	630	500	400		
7.9	10.0	7.1	8.8	500	500	400	630	500	400	800	630	500		
10.1	12.5	8.9	11.1	630	630	500	800	630	500	1000	800	630		

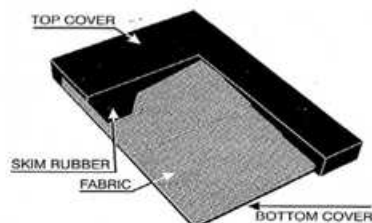
A : Driving Pulleys B : Snub Pulleys C : Bend pulleys

Top & Bottom Covers Thickness for Elevator Belting

Service	Thickness of covers	
	Pulley side (Bottom)	Bucket side (Top)
Dry, fine material	1.5 mm	1.0 mm
Ash, coarse coal, sand and gravel, crushed stone or wet ores	1.5 mm to 3.0	1.0 mm to 1.5
Coarse gravel, Coarse stone, Heavy buckets or severe abrasion	2.5 mm to 3.0 mm	1.5 mm to 3.0 mm
Most Severe Service due to abrasion or large buckets	5.00 mm to 6.00 mm	3.00 mm to 5.00 mm

Minimum Pulley Diameters for Elevator Belting

Number of plies	Minimum Pulley diameters (mm)	
	Head Pulley	Boot Pulley
4	500	350
5	600	450
6	750	500
7	900	600
8	1050	700



Minimum Number of Plies for Elevator Belting

Projection of Buckets	Class of material	Lumpy/Sticky materials, heavy ores or other minerals	Gravel/Coarse sand, crushed stone, coal, lighter ores, etc.	Cement, dry sand, pea coal, fertilizer etc. (heavy but free from lumps)	Light powdery or free flowing materials free from lumps
100 mm		5	4	4	
125 mm	7	6	5	4	
150 mm	7	6	5	5	
175 mm	8	7	6	5	
200 mm	8	7	6	5	
225 mm		8	7	6	
250 mm		8	7	6	

Elevator beltings are employed for very steep or vertical conveyance. Rubber elevator belts are recommended for centrifugal or continuous discharge of materials like coal, sand, clay, sugar, lime, cement and certain dry chemicals and manufactured in all-cotton 34oz., hard duck fabric.

ELEVATOR BELTING