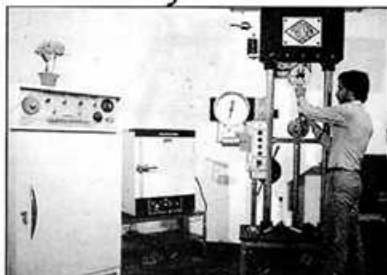


Looking toward tomorrow with fresh visions

With inventive new approaches and advanced new technologies, we are steadily creating a new generation of "Universal" products. Sincerely with a motto of "High-Quality, high performance "Universal", product development involves the repetition of carefully conducted tests in its most advanced laboratory.

Anil Gupta
Anil Gupta
Vice President



Conveyor Belts are lucratively employed for carrying and lifting materials by a number of industries such as thermal power, coal, mining, cement, fertilizer, sugar, tea estates etc. and Universal offers ideally designed belts, for optimum resistant to the most common forms of damage from abuse.

Conveyor Belting Specifications Range

BELT WIDTHS From 150 to 1600mm as per IS: 1891 & ISO 4195 in open or endless length

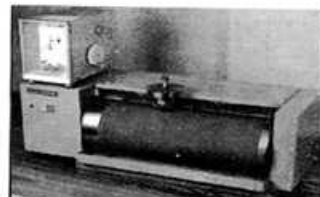
REINFORCEMENT In various strength ratings of fabrics in cotton/cotton (CC), nylon/nylon (NN) and (EP).

PLY Monoply and in multiples ranging upto 12 plies



COVER GRADES

Grade	Conforming To Standards	Applications			Physical Properties		
		Characteristics	Material Reference	Material Temp. Range	Tensile Strength (Min.), Kg/cm	Elongation (Min.) %	Abrasion (Max.) mm
Hygienic							
HYGIENIC	IS : 1891 (Part IV)	Non-toxic, tasteless and odourless. Recommended for handling foodstuffs.	Tea, Coffee, Pharmaceuticals, etc.	(-) 20° C to +60° C	100	350	350
General Purpose							
M - 24 (M, 'A)	IS. 1891 (Part I) BS. 490 (Part I)	High tensile strength and superior in abrasion, cut and gauge resistance. Recommended for transporting highly abrasive materials.	Metallic ore, Coke Stone, Copper ore Limestone, Broken glass, etc.	(-) 45° C to +60° C	245	450	150
N - 17 (N or S)	IS. 1891 (Part I) BS. 490 (Part I)	Recommended for transporting moderately abrasive and non-abrasive materials.	Coal, Wood chips Fine ores, Clay Unground, Cement, etc.	(-) 35° C to +60° C	175	400	200
Heat Resistant							
Universal "BLAZE" (HR)	IS. 1891 (Part I) T.	Super in heat and abrasion resistant.	Cement, Chemicals, Soda ash, etc.	+ 65° C to +120° C	130	350	250



Abrasion Resistance Test



"Universal" Hygienic Conveyor Belt conveying Tea leaves on CTC machine.

(Remarks) * Testing method of abrasion as per DIN 22102. # sub. to (-20% tol.)

Please consult us for special grades or for your other requirements.

All Nylon (NN) NOMENCLATURE

Belt Designation	Maximum Allowable Working Tension	Nominal Carcass Thickness	Nominal Carcass Weight	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)			
				Upto 800	Upto 1500	Upto 2500	20'	35'	45'	
HEAVY DUTY (TYPE B)	250/2	25	2.6	0.030	900	650	500	450	450	500
	315/3	31	3.7	0.039	1200	1000	800	450	500	500
	400/4	44	4.8	0.048	1300	1100	850	500	500	600
	500/4	50	5.0	0.046	1400	1200	900	500	500	650
	630/3	63	4.2	0.047	1400	1200	1000	500	500	650
	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	

CALCULATION OF BELT ROLL DIAMETERS

Where D = Roll Diameter (m)
d = Belt Thickness (m)
L = Belt Length (m)
K = Diameter of Core (m)

$$D = \frac{4d \cdot L}{\pi} + K \quad (m)$$

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

RECOMMENDED MINIMUM PULLEY DIAMETER FOR CONVEYOR BELTS

Carcass Thickness (mm)		Recommended Minimum Pulley Diameter (mm)										
Fabric Type		Percentage of maximum allowable working tension used										
All Cotton	All Nylon	Upto 30%			Over 30 upto 60%			Over 60 upto 100%				
		Type of Pulley			Type of Pulley			Type of Pulley				
From	To	From	To	A	B	C	A	B	C	A	B	C
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
12.6	15.6	11.2	13.8	800	800	630	1000	800	630	1250	1000	800
15.7	19.5	13.9	17.5	1000	1000	800	1250	1000	800	1400	1250	1000
17.6	20.0	15.6	17.7	1000	1000	800	1250	1000	800	1600	1250	1000

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

Note: The belt carcass is the distance between the highest points of the upper layer of fabric and the lowest points of the lower layer.