



Bulk Transport Conveyor Rubber EP Belt

Technical Specifications

Conforming IS 1891



Resistentes a la abrasión Cinturones del transportador

أحزمة الـخامس المحمـية الـحرارة

Résistant à l'abrasion de qualité courroies transporteuses

HIC
UNIVERSAL
True Performance Rubbers





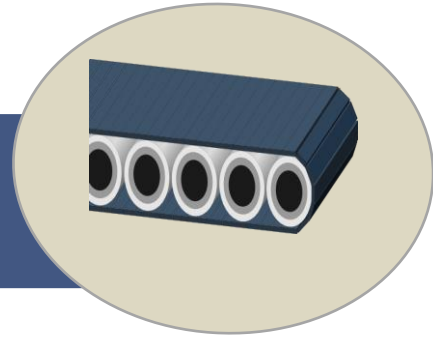
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Specification of Rubber Conveyor Belts

Classified under HS Code 4010



HIC Universal Rubber Conveyor Belts ensures safe transportation of lifting & unloading of materials, in a way, the nylon NN or polyester EP textile carcass fabric plies are bonded with synthetic rubber compound, belting rubber covers are made of anti-abrasive, high tensile strength quality M-24 or N grade suitable for carrying lumps or fine dust at ambient temperature, rubber grade Heat Resistant, SHR, Superior HR for hot materials transportation up to 200 degree C, belt rubber grade Hygienic for sugar, tea, vegetables, food processing, belts cover quality Fire Resistant for use in transporting lignite coal, sulphur, nuclear power stations and supersedes IS:1891, BS: 490, DIN: 22102, ISO 4195 quality standards.

Fire resistant conveyor belts manufactured by HIC Universal as per **United States Mine Safety Health Administration MSHA - FR**, MSHA - FOR, Japan - JIS 6324, Australia - AS 4606, UK - BS 8407, Germany DIN 22103, **IS 3181**, ISO 340, ISO 1554.

Fire Retardant Antistatic Belting produced by HIC Universal as per **Canadian department of energy Mines and resources CAN / CSA M 422 - M87 Type - C**, FRAS - C grade conveyor-belt for below surface use as well as other mining operations.

About HIC

HIC International Co Inc, formed in 1988 manufacturing industrial **rubber and steel** products **ISO 9001** certified producer of **Conveyor belt roller idler**, **Power Transmission belts** coupling pulley, **Hydraulic hose valve**, **Safety** rubber sheet mat quality exporters of HIC **Universal brand** to industrial traders distributors of USA, Australia, UAE, Singapore, China, South Africa, UK, Germany, Taiwan having manufacturing factories in Delhi and Ghaziabad UP of India.

Total Quality Management principles are followed and True Performance is thus assured.

Why HIC Universal Conveyor Rubber Belts?



Wear Resistant

to Heat, Fire, Abrasion and Oil

Superb Bonding Synthetic Rubber

Reinforced with EP or Nylon Fabric Ply

No Joint Failure

of Vulcanized Endless Belts

Highest Physical Properties

for Successful Material Handling

Longer Life Transport

Bulk Lumps and Foodstuffs Conveying Solution

Materials handling and goods movement gets safe using conveyor belt made in India by HIC Universal.

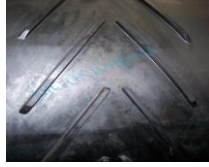
HIC Universal rubber conveyor belts are Original Choice by bulk conveyor system manufacturers in India, China, USA, UK, Germany, Mexico, Russia, Turkey, Peru, Canada, Taiwan, Malaysia, Sweden, Tunisia, South Africa, Djibouti, Senegal, Japan, Thailand, Sri Lanka and other Asian countries.

RANGE of Belts

Materials Transportation HIC Conveyor



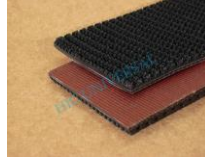
Smooth Surface
Rubber Conveyor
Belt



Chevron Belting
C15 Pattern



Chevron Pattern
YT Cleat Belt



Rough Top
Conveyor Belt



Bucket Elevator
Belt



Hygienic Food Grade
Rubber Belt

- ❖ Nylon conveyor belts M - N grade rubber 3- 8 ply, 3 x 1.5 mm thick covers min. & above up to 2400 mm W
- ❖ Polyester textile EP Fabric Ply M- N grade belts up to 20mm thick
- ❖ Hygienic Food grade Nylon 3, 4 ply conveyor belting up to 1200 mm W
- ❖ Heat Resistant conveyor belts with 4 x 2 mm thick rubber covers min. & above of HR 120 C
- ❖ Fire Resistant conveyor belts with 3 x 3 mm thick rubber covers min. & above
- ❖ Rough Top belts 3 ply with 3 mm ruff min. thick on top up to 1000 mm W
- ❖ Endless size conveyor belts up to 90 metres max. single length
- ❖ Elevator rubber belts in 2 equal roll lengths
- ❖ PVC Food grade conveyor belts up to 2000 mm W
- ❖ Rough Grip, Ribbed PVC conveyor belts
- ❖ Oil Resistant PVC conveyor belts up to 3000 mm W
- ❖ Conveyor Belt Fasteners Solid Plate Hawk type



Sizes of Rubber Belt Manufactured

HIC Material Movement Conveyor

Belt **width sizes** 200 mm (= 8 inch) to 2400 mm (= 96 inch)

REGULAR standard conveyor belts width sizes in different thickness produced (mm): 500, 600, 650, 800, 1000, 1200, 1400, 1600, 1800 and 2000.

Conveying **Carrying Capacity** of 800 mm width conveyor-rubber-belt is approximately 140 tons per hour at belt speed of 45 meter / minutes.

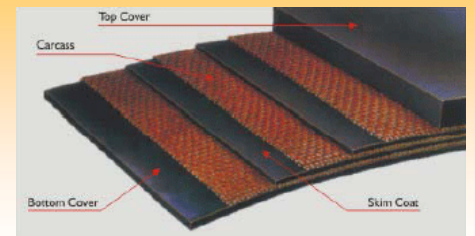
Ply in Rubber Belts

Straight and Reverse Stepped Layers Produced by HIC

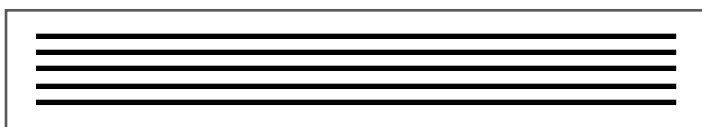
Textile ply belt Nylon or EP dipped fabric 2, 3, 4, 5, 6 to 12 as per total strength desired STRAIGHT

Nylon fabric ply rubber belts 4, 5, 6, 8 (4/2, 5/3, 6/4, 8/6) REVERSE STEP PLY for **submerged ash handling** transportation of hot ash in boiler house operating in quenching trough.

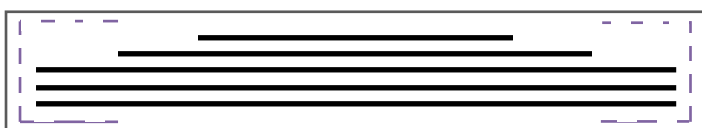
Reverse Step Ply conveyor-belt sizes produced in 630/4 (4/2) 4ply, 800/5 (5/3) 5ply, 1250/6 (6/4) 6ply.



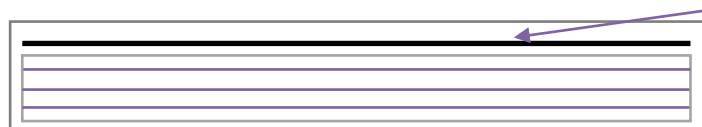
Straight Multiply Textile Conveyor Belt



Straight Ply Construction Belt



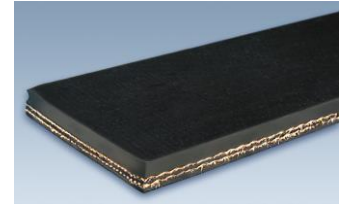
Reverse Stepped Ply Construction Belt



Breaker

Vendor Data: www.hic-india.com | Customers List: www.universaldelhi.org | Catalogue: www.rubber-steel-industrial-products.com





Strength Rating

EP, Nylon Fabric Reinforced Belts Produced by HIC

Nylon conveyor belts sizes multiply type NN 100 = 200/2 (2ply) to NN 315 = 2500 /7, where /2, /3, /4 represents number of fabric ply reinforcement layers in conveyor-beltting.

EP multiply conveyor-belt sizes type Polyester-Nylon EP 125 x 2 ply =250/2 to EP 400 x 8 ply = Kn/m 3150 /8

Regular standard sizes of conveyor-belt fabric strength rating types available: 400/2, 315/3, 500/3, 630/3, 500/4, 630/4, 800/4, 1000/4, 800/5, 1250/5, 1600/5, 1000/6, 2500/7.

Other in-between belt strength sizes type also produced.

Adequate Load Support for conveyor-belt can be achieved by selecting minimum and above rubber belt width sizes wisely as per belt strength rating corresponding to material bulk density to be conveyed, and, not above maximum belts width sizes recommendations.

Weight of EP belt or Nylon fabric belting of 650 mm width of 3 ply-315/3 with 3mm thickness rubber-belt cover Top and 1.5 mm Bottom of 100 meters length equal 600 kg approximately.

Drum pulley conveyor minimum diameter MM 323, 408, 510, 630 be used for respective conveyor belting Ply of 3, 4, 5, 6 , however, select as per belt carcass ply thickness and allowable working tension properly.

Top Rubber Cover

Smooth, Rough Top, Chevron Type HIC Conveyor Belt Produced

Smooth rubber belt surface coating TOP Thickness MINIMUM 3 mm (=1/8"), 4, 5, 6, 7, to 12 mm.



Chevron conveyor-belt Diamond pattern Thickness sizes minimum 3 mm to 8 mm.

Patterned conveyor-belt YT pattern with 20mm cleat height Thickness sizes minimum 3 mm to 8 mm.



Chevron conveyor-belt corrugated pattern Thickness sizes minimum 3 mm to 8 mm.

Cleated conveyor-belt Thickness sizes minimum 3 mm to 8 mm.



Power-house boiler Ash handling conveyor-beltting minimum 2 mm, 3, 4, 5 mm, as top rubber-cover

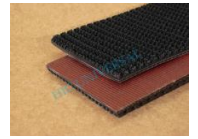


thickness sizes is usually kept lower than the bottom-rubber due to more abrasion at the back.

Bucket Elevator belting minimum 1.5, 2, 3 mm, as top rubber-cover thickness at bucket side is usually kept lower than the bottom rubber due to more abrasion at the pulley side.

Rough Top conveyor-belt anti-slip Thickness sizes minimum 3 mm to 6 mm.

Frequency Factor minutes to be calculated for selecting conveyor-belt rubber-cover thickness considering belt-Length divided by belt Speed in feet per minutes.



Bottom Rubber Cover

Smooth, Bare, Friction Coating of HIC Belting Processed

Thickness of Synthetic rubber-belt smooth coating **BOTTOM MINIMUM 1.5 mm** (=1/16"), 2, 2.5, 3, 4, 5 to 10 mm.

Ash handling belting minimum 3 mm, 4, 5 mm, as bottom rubber-cover thickness sizes is usually kept more than the top rubber due to more abrasion at the back than the face rubber carrying ash.

Elevator belt minimum 3, 4, 5 mm, as bottom rubber-cover thickness at pulley side thickness is usually kept more than the top rubber due to more abrasion at the pulley side than top which is bucket side.

Conveyor-belting with **bare bottom** and rubber **frictioned** surface coating at bottom also produced for tire industries and sugar bagasse conveying belt conveyor application.



Top rubber Coating Bare Bottom Belt

Edges Manufactured

Construction of HIC EP, Nylon Multi-Ply Conveyor-Belts

CUT edges type conveyor-belts as a standard manufactured with black rubber-paint, having no implication in the performance, being nylon or EP textile ply are rot-proof.

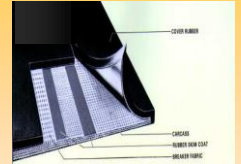
Rubber-conveyor belting, however, also produced in edges type **BONDED** or **MOULDED** when seldom essential for particular application needs above 800 mm belting width only on extra cost.



Breaker Ply

Stacker Impact Damage Protect Conveyor Belt Produced by HIC

Polyamide breaker in rubber conveyor belts 1 or 2 number on FACE, BOTTOM and EDGES for added stacker high impact resistance manufactured used by quarry crusher equipment manufacturers, suggested where rocks, gravel, and other materials fall from good height to prevent damage.



Breaker Ply Conveyor Belt

Order Quantity Minimums

Open End Meters and Endless Length of HIC Conveyor Belts Supplied

Rubber conveyor belt length max single roll up to 300 METERS in OPEN ends, subject to Minimum order quantity of 50 meters L(=164 feet) in single specification of belt size above 750mm W, and, 150 meters length quantity minimum order below 750mm wide.

Below 750 mm conveyor-belt width, belts manufactured and supplied in 2 equal roll lengths to match ordered quantity of belt length.

Length Tolerance of + 5%, -1% on all ordered quantity of conveyor-belts shall be supplied deemed to have been accepted by buyers.

Packed in rolls or reels with wooden roll inside wrapped in sea worthy jute hessian or HDPE



Hot Vulcanized Joints (Splicing)

Endless Conveyor Belt Manufactured by HIC



Length of conveyor belts in Endless hot vulcanized diamond joints manufactured with special HIC Universal technique by automatic belt vulcanizing machine for standard regular belt widths as explained above up to maximum 75 meter = 246 feet long vulcanized splice endless belting.

Cold vulcanizing for belt splicing also done for long length of conveyor belting.



Hot Vulcanized Jointing of Rubber Belt

Conveyor Belting can be rendered endless by jointing the two ends of a length of belt either by vulcanized splicing or by using mechanical fasteners. The former is recommended for better results. Hot Vulcanizing method of belts is followed by HIC for best durability.

Splicing: V-shaped (often called diamond) type of joints is strongly recommended. The extra length required to make the belt endless to requisite size shall be calculated by the following formula:

Splice Length = $W + 150 (N-2) + 25\text{mm}$ where,

W is width of belt (in mm), N is the number of plies.

For splicing procedure, please refer our separate detailed manual and for your splicing tool requirements viz., vulcanizing machine, tools & instruments, solution & cover compound, kindly call us.

Roll Diameter

CALCULATION OF BELT ROLL DIAMETERS

Where D = Roll Diameter (m)

d = Belt Thickness (m)

L = Belt Length (m)

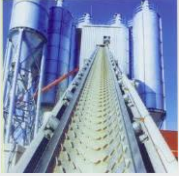
K = Diameter of Core (m)

$$D = \frac{4d.L + K^2}{p} \text{ (m)}$$



General Purpose grade

Abrasion Resistant Rubber Belt



Conveyor belt Grade [global M 24](#), used by material handling conveyor-system manufacturers, manufactured in belt cover rubber thickness of 3 x 1.5 mm, 4 x 2 mm, 5 x 2mm, 6 x 2 mm, 7 x 3 mm, 8 x 4 mm, 10 x 5 mm and others.

Heat Resistant T1 grade

Hot-Mix Asphalt Conveyor Equipment Rubber Belt



Heat Resistant conveyor belt SBR rubber Grade [BLAZE = HR 120](#) degree C temperature resistance [T1](#), used by hot-mix asphalt plant equipment manufacturers, produced in cover rubber thickness of 4 x 2 mm, 5 x 2mm, 5 x 3 mm and others.

SHR grade T2 Heat Resistant

Petroleum Sand Conveyor Rubber Belt



Super Heat Resistant conveyor belt chloro butadiene rubber Grade [BETAPLUS = SHR 150](#) degree C temperature resistance [T2](#), used by foundry sand handling equipment manufacturers, produced in cover rubber thickness of 5 x 2 mm, 6 x 2.5 mm, 6 x 3 mm, 7 x 3 mm and others.

Superior Heat Resistant T3

Clinker Cement Conveying Machinery Rubber Belt



Superior Heat Resistant conveyor belt EPDM rubber Grade [SUN = SHR 180](#) degree C temperature resistance [T3](#), used by clinker cement conveyor machinery manufacturers, made in cover rubber thickness of 6 x 2.5 mm, 7 x 3 mm, 8 x 4 mm and others.

UHR grade High Heat Resistant

Sinter Mining Conveyor System Rubber Belt



Ultra High Heat

Resistant conveyor belt EPDM rubber Grade **ALPHAPLUS = UHR 200** degree C temperature resistance, used by sinter mining conveyor system manufacturers, produced in cover rubber thickness of 7 x 3 mm, 8 x 4 mm and others.

Fire Resistant grade

Lignite Excavator System Conveyor Belt



Fire Resistant conveyor belt

and flame resistant belt open cast mines lignite coal transportation use neoprene CR rubber Grade **FR**, used by lignite belt-conveyor excavator system manufacturers, drum friction tested for duration of flame, anti-static property evaluated by electrical resistance test, flame retardant test by ensuring no re-appearance of flames on any test pieces, FR conveyor belt cover produced in rubber thickness of 4 x 2 mm, 5 x 2 mm and others.

FRAS-C Antistatic quality

Fire Protected Mine Conveyor Rubber Belt



Antistatic conveyor-belt

and fire resistant belting underground mines safety use neoprene CR rubber Grade **FRAS - C**, used by underground mining conveyor equipment manufacturers, produced in cover rubber thickness of 5 x 2 mm, 6 x 3 mm and others.

Oil Resistant grade

Refinery Equipment Conveyor Rubber Belt



Oil Resistant conveyor belt

minerals oils and vegetable oil dust conveying nitrile NBR rubber Grade **OR, MOR**, used by edible oil refinery equipment manufacturers and solvent extraction conveyor machinery manufacturers, produced in belt cover rubber thickness of 3 x 1.5 mm, 4 x 2 mm and others.

Food Grade White Hygienic

Sugar, Tea SBR Rubber Conveyor Belt



Hygienic conveyor belt anti-microbial non-toxic Food conveying SBR rubber Grade **Off-White Hygienic**, used by sugar machinery manufacturers and CTC tea machinery manufacturers, produced in belt cover rubber thickness of **3 x 3 mm, 5 x 3 mm, 6 x 4 mm** and others.

Crusher Belting

Aggregate Machinery Conveyor Rubber Belt



Crusher belt **super tensile strength and gauge resistant** rubber-Grade **global M 24, Y**, used by crushers' system manufacturers and aggregate machinery manufacturers, produced in belt cover rubber-thickness of **4 x 2 mm, 5 x 2 mm** and others.

Iron Ore Conveyor Belt

Ship Loading Systems Rubber Belts



Iron-ore transport conveyor belt **super tensile strength and gauge resistant** rubber-Grade **global M 24, X**, used by ship loading unloading conveyors manufacturers, iron ore conveyor systems manufacturers and bulk port infrastructure consultants, produced in belt cover rubber-thickness of **5 x 2 mm, 6 x 3 mm** and others.

Coal Conveyor Belt

Mine Bulk System Rubber Belts



Coal transport conveyor belt moderate **cut-resistant** rubber-Grade **RMA 2, Z, N, global M**, used by coal conveyor systems manufacturers, produced in belt cover rubber-thickness of **3 x 1.5 mm, 4 x 2 mm, 5 x 2 mm** and others.

Cold Resistant Rubber Belt

Mineral Ore, Timber, Conveying Belts



Cold resistant rubber-conveyor belt Grade D, cold temperature resistant to Minus -45 degree C , + 50 C and wear-resistance, used by mineral ore conveyor machinery manufacturers and timber panel wood processing equipment manufacturers, produced in belt cover rubber-thickness of 3 x 1.5 mm, 5 x 2mm and others.

Bucket Elevator Belt

Raw Mill, Hopper Conveyor System Belting



Belt bucket elevator Heat and abrasion resistant rubber HIC Universal BLAZE Grade HR and M 24, used by bucket elevator vertical conveyor systems manufacturers, produced in configurations of nylon belt 4, 5, 6 ply in 630/4, 800/5, 1000/6 belt covers bucket side TOP mm 1.5, 2, 3 and pulley side BOTTOM 3, 4, 5 mm.

Shot Blasting Machine Belt

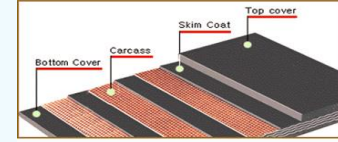
Abrasion Resistant Rubber Belts



Tumble blast anti-abrasion rubber conveyor belt used by shot blasting machine manufacturers, manufactured in configurations of nylon belt in 5 ply- type 630/5 with 6 mm thick rubber on top and 3 mm on bottom, of HIC's SAR grade super abrasion resistant rubber, total belt thickness of about MM 14, rubber belt sizes 1100 mm W = 43-1/2" x 3.75 meters equal 148" Endless length, 875 mm W = 34-1/2" x 3 meters equal 118" Endless and 915 mm W = 36" x 3.05 meters equal 120" Endless conveyor belt with HIC unique strong hot vulcanized splices.

Nomenclature of Conveyor Belt

Tensile Rating and Belt Weight-Widths to Support Load: Technical Data



Conveyor Belt Designation EP or NN	Allowable Maximum Belt Tension (ABT)	Nominal Carcass Thickness	Nominal Carcass Weight	Max. belt Width (mm) for satisfactory load support for material bulk density up to (t/m ³)			Min. belt Width (mm) for Adequate Troughing of Empty Belt		
				1.0	1.6	2.5	20° idlers	30° / 35° idlers	45° idlers
* Tensile Rating / Ply	(kN/m)	(mm)	(Kg/m ²)						
200/2	20	2.2	3.54	650	500	400	250	300	350
250/2	25	2.6	3.90	800	650	500	300	350	400
315/2	31	2.6	4.00	800	650	500	300	350	400
400/2	40	3.2	4.96	1000	800	650	350	400	450
500/2	50	3.8	5.28	1000	800	650	350	400	450
630/2	63	4.6	6.20	1200	1000	800	400	500	600
250/3	25	2.8	3.79	1000	800	650	350	400	450
315/3	31	2.8	3.93	1000	800	650	350	400	450
400/3	40	3.4	4.29	1000	800	650	350	450	500
400/4	40	3.9	5.24	1200	1000	800	400	500	600
500/3	50	3.4	4.44	1200	900	800	350	450	500
500/4	55	4.7	5.72	1400	1200	1000	400	500	600
630/3	63	4.0	5.07	1200	1000	800	400	500	600
630/4	70	4.7	5.92	1400	1200	1000	400	500	600
630/5	70	6.0	7.15	1800	1600	1400	400	650	550



Conveyor Belt Designation EP or NN	Allowable Maximum Belt Tension (ABT)	Nominal Carcass Thickness	Nominal Carcass Weight	Max. belt Width (mm) for satisfactory load support for material bulk density up to (t/m ³)			Min. belt Width (mm) for Adequate Troughing of Empty Belt		
				1.0	1.6	2.5	20° idlers	30° / 35° idlers	45° idlers
800/4	90	5.5	6.76	1600	1400	1000	450	600	750
800/5	90	6.0	7.40	1800	1600	1400	500	650	750
1000/3	100	6.8	8.34	1600	1400	1200	450	550	650
1000/4	110	6.7	7.36	1800	1600	1400	500	650	800
1000/5	110	7.0	8.45	1800	1800	1600	650	800	900
1250/4	140	8.9	10.36	1800	1800	1600	650	800	900
1250/5	140	8.5	9.20	2000	1800	1800	650	800	900
1400/4	155	9.3	11.12	1800	1800	1600	650	800	900
1400/5	155	11.3	12.95	2000	1800	1800	800	900	1000
1500/5	165	11.3	12.95	2000	1800	1800	800	900	1000
1500/6	165	10.3	11.04	2000	2000	1800	800	900	1000
1600/4	180	10.4	12.36	2000	1800	1600	650	750	900
1600/5	180	11.8	13.90	2000	1800	1800	800	900	1000
1600/6	180	13.7	15.54	2400	2000	2000	1000	1200	1400
1800/6	200	13.7	15.54	2400	2000	2000	1000	1200	1400
2000/4	220	11.8	14.48	2000	2000	1800	800	1000	1200
2000/5	220	13.2	15.45	2400	2000	2000	1000	1200	1400
2000/6	220	14.3	16.68	2400	2000	2000	1000	1200	1400

* Please read disclaimer

Vendor Data: www.hic-india.com | Customers List: www.universaldelhi.org | Catalogue: www.rubber-steel-industrial-products.com





Rubber Cover Grades

Conveyor Belt Service Material Rubber Coatings: Technical Specifications

Rubber Belt Grade	Conforming To Standards	Applications			Belt Physical Properties		
		Belt Characteristic	Industrial Materials Handling Reference	Material Temperature Range	Av. Tensile Strength Belt (Min) Kg/Cm	Av. Elongation (Min.)%	Rubber Abrasion (Max.) mm ³
Belt Conveyor Mine, Belt Coal Conveyor, Rubber Belt, Limestone Quarry Conveyor					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
Fly Ash Conveyor Belt, Husk Conveyor Belt, Shot Blaster Belt				GENERAL PURPOSE			
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
Conveying Belt, Hard Rock Mining Belt				GENERAL PURPOSE			
W				(-)45°C	180	400	90
X				to	250	450	120
Y				+ 60°C	200	400	150
Z					180	400	90
RMA 1					170	400	150
RMA 2					140	400	250
Synthetic Rubber Conveyor Belt, Urea Handling Belt				SPECIAL PURPOSE			
H-TEX (SAR)	Mfd. to our Universal Standards	Moderate tensile strength and excellent in abrasion resistance exclusively manufactured by us.	Copper ore, Fertilizers, Sand, etc.	(-)45°C to + 80°C	110	400	100



Rubber Belt Grade	Conforming To Standards	Applications			Belt Physical Properties		
		Belt Characteristic	Industrial Materials Handling Reference	Material Temperature Range	Av. Tensile Strength Belt (Min) Kg/Cm	Av. Elongation (Min.)%	Rubber Abrasion (Max.) mm ³
Hot Belt, Clinker Handling Belt, Feeder Belting		HEAT RESISTANT					
Universal BLAZE (HR)	IS: 1891 (Part I) T1	Super in heat and abrasion resistant.	Cement, Chemicals, Soda ash, etc.	+ 65°C to + 120°C	130	350	250
Universal BETAPLUS (Super HR)	IS: 1891 (Part II) T2	Heat and abrasion resistant.	Cement clinker, Foundry Sand, Sintered ore, etc.	+ 65°C to + 150°C	130	350	250
Universal SUN (Superior HR)	Mfd. to our Universal Standards	Surface of rubber cover hardens by heat and shallow cracks occasionally.	Iron pellet, Hot coke, Burnt limestone, etc.	+ 65°C to + 180°C	110	350	250
Conveyor Belting		OIL RESISTANT					
OR	IS: 1891 (Part III)	Excellent resistance to mineral, vegetable and animal oils.	Materials with crude petroleum Tar sand, Oil sand, etc.	(-)25°C to + 60°C	125	250	350
Food Quality Rubber Belt, CTC Tea Processing Machine Belt White Color		HYGIENIC FOOD					
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
Industrial Conveyor, Power Station Rubber Belt, Coking Machinery Belt		FIRE RESISTANT					
FR	ISO 284	Fire resistance and anti static.	Coal, Coke, Sulphur, etc.	(-)45°C to + 60°C	110	400	200

* Also, Ultra Heat Resistant up to 2000C manufactured with minimum 7 x 3 mm cover thickness

(Remarks)* Testing method of abrasion as per DIN22101

#sub to (-20% tol.)

Special cover grades have also been developed depending upon service conditions, viz., Chemical Resistant & HTR rubber grade.

** Weight of rubber cover (approx.) = 0.034 kg / 25 mm width / per 1 mm thick / per meter length.

*** Manufactured upto **2400 mm** widths

Weight of nylon conveyor belt of **650 mm** wide x 315/3 x 3/1.5 mm covers of 100 mtr. long = **600 kgs** approx. @ Conveyor carrying capacity of 800 mm wide belt is approx 140 tons/hour at belt speed of 45 mtr / min.

* Please read disclaimer



Pulley Diameter Recommendations

Minimum Suggested Drum Diam of Conveyor Belt

Belt Carcass Thickness (mm)				Recommended Minimum Pulley Diameter (mm)								
Textile Belt Type				Percentage of maximum allowable working tension used								
				Up to 30%			Over 30 up to 60%			Over 60 up to 100%		
				Type of Pulley			Type of Pulley			Type of Pulley		
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
12.6	15.6	11.2	13.8	800	800	630	1000	800	630	1250	1000	800
15.7	17.5	13.9	15.5	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 Drum pulley (Head/ Tail); B= Snub pulley; C= Bend pulley

Capacity of Conveyor Belt *Ton per Hour Carrying in relation to Speed*

Conveyor belts capacity in tons per hour (TPH) is based on material weighing 100 lbs. per cubic foot, 20° material surcharge angle with three equal length rolls on troughing idlers.

CAPACITY (TPH) = .03 x Belt Speed (FPM) x material weight (lb. per cu. ft.) x load cross section (sq. ft.)

TPH conveying capacity with 20° Troughing Idlers

Belting Width in Inches	Belt Speed in feet per minute (FPM)											
	100	150	200	250	300	350	400	450	500	550	600	650
16	42	63	84	105	125	147	168	-	-	-	-	-
18	54	80	110	135	160	190	218	243	270	-	-	-
24	100	150	200	250	300	350	400	450	500	550	600	-
30	160	240	320	400	480	560	640	720	800	880	960	1040
36	235	350	470	585	700	820	935	1050	1170	1290	1400	1520
42	330	495	660	825	980	1155	1320	1485	1650	1815	1980	2140
48	440	660	880	1100	1320	1540	1760	1980	2200	2420	2640	2860
54	570	855	1140	1420	1710	2000	2280	2560	2850	3130	3420	3700
60	720	1080	1440	1800	2160	2520	2880	3240	3600	3960	4320	4680

TPH conveying capacity with 35° Troughing Idlers

Belting Width in Inches	Belt Speed in feet per minute (FPM)											
	100	150	200	250	300	350	400	450	500	550	600	650
18	66	100	135	170	200	235	270	305	338	-	-	-
24	125	187	250	310	380	435	500	560	625	685	750	-
30	200	300	400	500	600	700	800	900	1000	1100	1200	1300
36	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950
42	420	635	845	1060	1270	1480	1690	1900	2120	2320	2540	2750
48	560	845	1125	1400	1690	1970	2250	2530	2810	3090	3370	3660
54	740	1110	1480	1850	2220	2600	2960	3340	3700	4080	4450	4820
60	935	1400	1870	2340	2800	3280	3740	4200	4680	5150	5610	6100

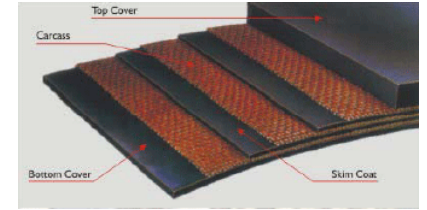
Speed Max. in relation to Lump and Width of Belt

Belt Width in Inches	Maximum Size of Lumps *		Maximum Belt Speeds in feet per minute (FPM)		
	Equal Size Lumps	Mixed with 90% Fines	Light Free Flowing Material As Grain, Pulverized Coal 50 Lb./Cu. Ft.	Average Material As Sand, Gravel, Stone, Coal, Ore 100 Lb./Cu. Ft.	Abrasive Material As Coal, Screened Lump Coke 30 To 50 Lb./Cu. Ft.
16	2	4	500	400	350
18	3	5	500	500	400
24	5	8	600	600	450
30	6	11	700	650	500
36	8	15	800	650	500
42	10	18	800	650	500
48	12	21	800	650	500
54	14	24	800	650	500
60	16	28	800	650	500

Disclaimer: Information's, written and verbal are provided by HIC, relative to its products which it determines to be reliable & no liabilities of whatsoever nature in regards to its uses. The purchaser of UNIVERSAL brand industrial products should determine for itself the suitability of such products.

Selection of Conveyor Belt

Bulk Lumps, Fines Material Transport HIC Belts Guide *



Follow simple steps for as to How to select conveyor belt to transport material through conveying system:-

Step 1 of HIC-Universal conveyor-belt Selection:

Effective Belt Tension measurement - EBT is calculated by summing up Tension needed to move Empty belt + Tension needed to move Load Horizontally + Tension needed to Lift the Load on conveyor belt by calculations.

Step 2 of HIC-Universal conveyor-belt Selection:

Tensile Rating choice – Conveyor Belt Tensile Strength Rating class is selected considering corresponding allowable working tension after EBT is known, say 400/3 or 800/4 or others.

Step 3 of HIC-Universal conveyor-belt Selection:

Belt Ply Rating and Fabric Construction choice - Considering tensile or breaking strength requirements, select **2, 3 or 4 ply belt** corresponding to tensile strength rating of HIC Universal manufacturing range. Selecting **higher tensile belt** will help in **reducing stretch**, thus allow in excess of 2% take-up.

Pulley size limitations must be considered checking technical data sheet of HIC-Universal conveyor belts, as More Plies mean larger diameter size of pulley, and if not adhered, belt will pre-maturely fail. Check for Head end, Tail and Snub pulley minimum diameter recommendations, if same can be accommodated or not, once belt ply rating and tensile class selection is done.

Nylon **NN** fabric reinforced textile ply conveyor belting is suitable for almost **all environmental** applications including extreme hot, while **EP** conveyor belting is best for **long haulage** beyond 1 km length due to very low stretch ability, but not for too hot materials transport.

For example, selecting either EP or Nylon belt Tensile rating class of say **630/3** implies 3 ply belt (technical values being same for both fabric types) with,

Full Thickness **Tensile Strength** = 630 kN/m width ; **Max Allowable Working Tension** = 63 kN/m

Pulley Diameter Minimum for 3 ply HD belting having 3.6mm carcass thickness, over 60% of allowable working tension used, **Head** = 400 mm , **Tail** = 315 mm , **Bend** = 200 mm need to be kept.

Step 4 of HIC Universal conveyor-belt Selection:

Belt Width choosing as per Troughing Adequacy - Belt-Width within or **More than minimum size** be selected for adequate troughing and cross-stability of the belt as per HIC Universal technical specifications data sheet, else spillage, conveyor belting edge wear shall occur.

Step 5 of HIC Universal conveyor-belt Selection:

Loading Impact Conditions consideration- **Breaker ply** and **higher Tensile Rating** conveyor belting needs to be selected considering lump weights and the belt subjected to beating.

Step 6 of HIC Universal conveyor-belt Selection:

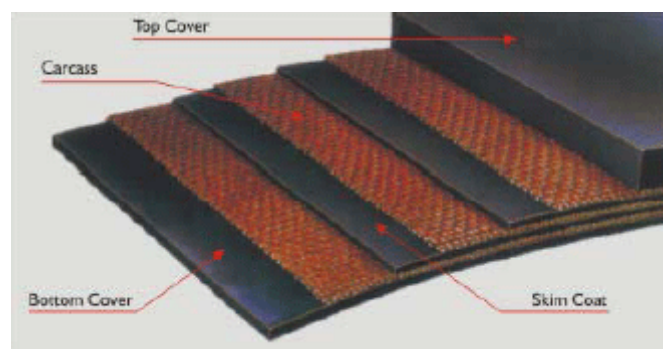
Load Support Adequacy measurement - For **Adequate Load Support**, select belt width MM size **within the maximum suggested** in relation to belts strength rating class, taking into account **loading rate Tons per hour**, else conveyor belt will break longitudinally.

Step 7 of HIC Universal conveyor-belt Selection:

Cover Rubber Grade quality and Thickness choice - Nature of conveying material, up to what extent abrasive, whether fine or coarse material, what lump sizes, what will be material temperature degree C, will help decide selecting rubber cover grade as to 'M' or 'HR' or 'FR' or 'OR' or 'Food', and, then **Frequency Factor** is calculated for deciding thickness of rubber covers, revolutions in **MINUTES** arrived by **Belt Length** (Distance in **Feet** between head and tail pulley) **Divided by Belt Speed** in **Feet per Min**, as per HIC-Universal technical data specifications sheet of conveyor belting.

Generally, minimum thickness of rubber cover chosen is 3 mm Top x 1.5 mm Bottom, and above.

Higher tensile rating within same number of plies and **greater thickness of top rubber cover choice** implies increased conveyor belting wear life due to abrasion and frequent joints failure.



Purchase Enquiry Info

EP or Nylon Conveyor Rubber Belt Min. Information to Be Sent

(Email at: belts@universaldelhi.org ; universal@hic-india.com or Call +91 11 2874 5120)

HIC ships rubber conveyor belt made of EP fabric or Nylon textile Ply layers conforming IS 1891 tailor-made to buyer's order specifications to different countries including India. Please send following information in English to quote prices:

1. Belt **Width** mm
2. Belt **Strength Rating** class
3. **Ply**
4. **Top** rubber cover thickness mm
5. **Bottom** rubber mm
6. Rubber quality **Grade**
7. **Application** of transport material characteristics-lump size-operating temperature
8. **Quantity** Open Ends roll lengths in meter or Endless loop length



Shipment Handling and Delivery Time

Bulk quantity orders are packed in sea-worthy jute or HDPE in Rolls or Bags shipped via sea in less than container loads (LCL) /FCL or by air. Sea freight (BL) or Air freight (AWB) charges payable at destination.

Small orders are shipped overseas via **DHL** or **FedEx** or **Aramex** courier, for which your Authorization Account number be sent to be booked on "Freight To Collect" basis, together with complete acceptable physical address and phone or mobile number.

Domestic orders are dispatched to any destination in **India** by Road Transport, Gati or TCI or ARC or Jaipur Golden on COD basis.

Shipping Time, generally within 4-6 weeks or as stipulated in quote and accepted order.

Vendor Data: www.hic-india.com | Customers List: www.universaldelhi.org | Catalogue: www.rubber-steel-industrial-products.com

Installation Method of Conveyor Belts

Safe Materials Handling, HIC Nonstop Conveying Tips

- **Pulley Size** of head 400mm & tail 315mm min be used up to 5.5mm inner thickness of 3/4ply belt and not less than min. diameter suggestions else ply separation & slippage problem can happen.
- **Materials Build-up** on pulleys & idlers should be removed periodically to avoid belt damage & misalignment.
- **Endlessing** be done in **V-shaped** using **Hot Vulcanizing compound joined squarely**; else belt will run to one side or off-center. Use fasteners only on 25% more strength belt, else life will reduce
- **Water Sprinkling** for **HR** grade belts (using thicker cover) is done at tail pulley for **better life** & never stop belt loaded with hot malt.
- **Unhampered Production** even if **Blemishes** or patches are visible at times, nothing to interfere performance. Similarly, **Wrinkles** are also **not inner ply fabric** used but liner cloth & cellophane paper impression marks of belt curing press, be left unattended.
- **Edges** mfd are **cut** for NN&EP fabric and **moulded** type for Cotton.
- **Joints** in fabric ply at times are used of usually **higher strength**.
- **Belt Rating** of **3ply Nylon** fabric min.(type**315/3**) up to 800 kg/m³ material bulk density for **max. 800mm** belt width & min. **4ply NN** (strength**630/4** KN/m) upto1500kg/m³ mbd for **max. 1200mmW** be used though carrying capacity, speed, etc factors are considered.
- **Cover Grade** of **M24** with **min. top 3mm & 1.5mm** bottom for **abrasive** materials, for **hot materials >65C up to 120C** temp 4x2mm min **BLAZE (HR)** & for malt **up to 150C** 6x2.5mm min. **BETAPLUS(SHR)** be used.

* **Size Variation** (+, -1.5% Width; +, -10% Thickness; +5%,-1% Length) as per mfg tolerances should be acceptable.

Organization Structure

Industrial supply manufacturing company having dedicated team of 63 skilled work forces includes Rubber Technologist, Chemists, Engineers and Skilled Labor's, Management Experts viz., Plant Manager, Quality Control Inspector, Lab In charge and I.T specialists. Majority of operations are automatic.

Production Capacity

	Approximate Qty. per annum
1. Conveyor Belts, Heat Resistant Rubber Belt Food Belt http://www.rubber-steel-industrial-products.com/conveyor-belts-manufacturer/index.htm	72,000 meters
2. Belt Fasteners, Mechanical Fasteners	1,00,000 numbers
3. Conveyor Idlers, Steel Conveyor Rollers http://www.rubber-steel-industrial-products.com/conveyor-rollers-manufacturer/index.htm	60,000 nos.
4. Conveyor Pulleys, Drive Roller Steel	1,200 nos.

Visakhapatnam Steel Plant (721354), NALCO (3072),
Subhash Projects (EM-10,18), Heavy Engg. Corp.(6003),
Bokaro Steel (72621), Salem Steel(000155),
Gujarat State Road(000118), ACC (944),
Army Base(512/ABW-LP/76), NTPC(H8267), etc.

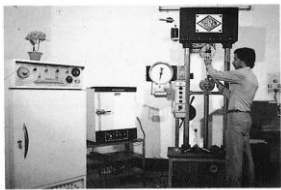
* Price List & terms on specific enquiry please.

Quality Assurance Plan

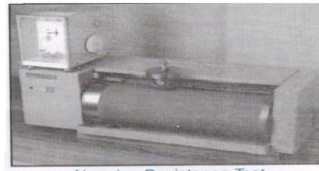
HIC Conveyor Belts Testing Parameters

Quality **rubber conveyor belts** manufactured in ISO 9001 certified HIC factories in India with Production Supervisors conducting routine pre-manufacture checks and post-manufacture tests as to:

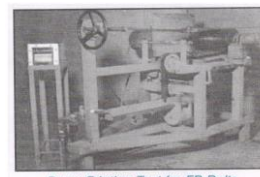
- 100% **Physical checks** with respect to dimensions,
- 100% **Chemical checks** w.r.t. MOC,
- 20% **Random physical tests**



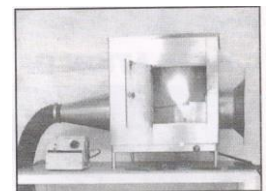
Tensile Strength & Elongation
Testing Machine



Abrasion Resistance Test



Drum Friction Test for FR Belts



Flame Test for FR Belts

Test Certificate & Warranty

HIC Manufacturer's Lab TC of Conveyor Belt Supplied

Quality conveyor-belt conforming **IS 1891**, BS 490, ISO 284, DIN 22101, **IS 3181**, IS 3400- HIC-manufacturers in-house modern Test Lab Certificate issued with respect to Rubber Cover tensile strength in MPa, Elongation % at Break of conveyor belt rubber cover, Full Thickness Tensile Strength in KN/m width, besides other tests such as Ply Adhesion, Ageing, Drum Friction, Flame Resistance, etc.

Warranty of one year against any manufacturing defects in HIC manufactured **conveyor belting** product.

Third Party Inspections by DNV, RITES, EIL, QSS, SGS, also arranged in HIC's **rubber belt factory** or by Government Approved Laboratory, Test Certificate issue fee charges directly reimbursed by buyers.

Legalization by Embassy or Chambers of Commerce **Attestation** of export shipping Invoice and other documents also provided towards export of Indian Origin rubber products if demanded on actual fee remitted by importers directly to HIC-Universal and or cost added up in Invoice.

Manufacturing & Testing Equipments



Belt Press

Exporters-Importers of industrial products having latest manufacturing machinery and advanced testing equipments.

Conveyor Products Production Machinery



Belting Calander

Banbury Rubber Mixer, Dispersion Kneader(s), Mixing Mill(s) 2 Roll, Calander Machine (3Roll), Jointing Machine, Rubber Bale Cutter, Hydraulic Presses (2 daylight), Hydraulic Press (single daylight), Hydraulic Finishing Press, Belt Endlessing M.C.(Vulcaniser), Sundry Machines viz. Lathes, Shaper, Generator sets, Hydraulic Jacks, etc.

Rubber Products Quality Testing Apparatus as per ISO :



Manufacturing Hydraulic Press

B.O.D. Incubator (seasoning chamber), Hot Air Ageing Oven, Physical Balance, Tensile Testing Machines, Abrasion Tester(as per DIN), Drum Friction Tester (as per Canadian stds), Scott Flex Tester (as per railways), Dumbbell Dies, Yarn Testing Machine, etc. **Calibrated** periodically. Indigenous technology with latest technical Indian knows how, however, no collaboration made so far.

Quality Control

It is in between process checks that are strongly checked & lodged in register to ensure finished rubber product meeting quality standards.

Test Certificate (TC) of our Lab, wherever, applicable, is **forwarded** along with the supply.



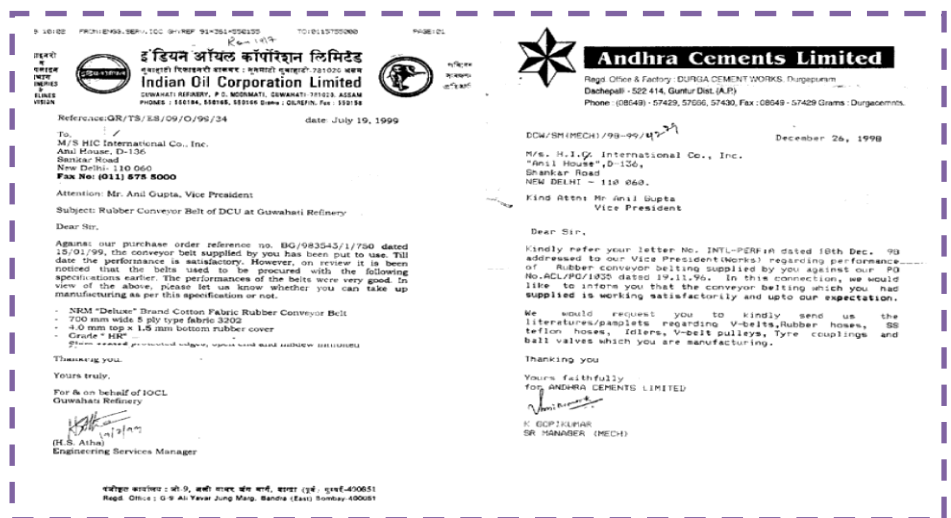
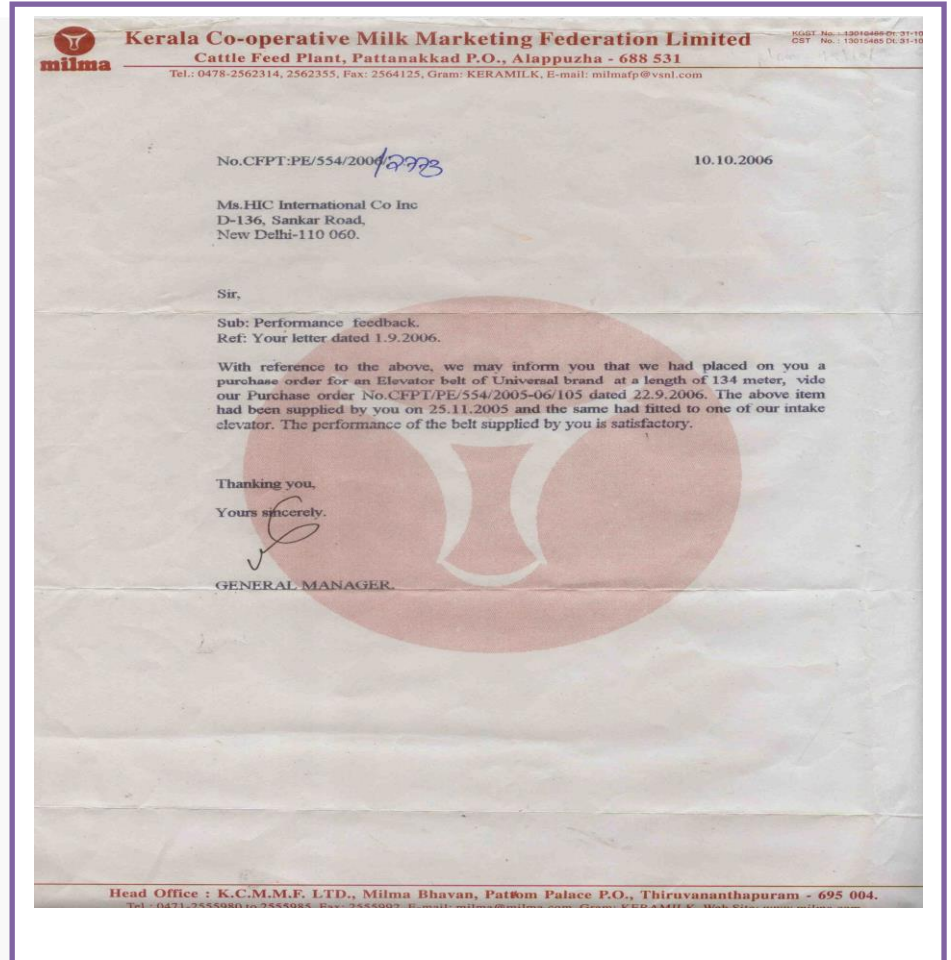
Performance Certificates



Export Excellence Award during Feb 1997



ISO Certificate



Total Quality Management Principles Followed





Performance Certificates

SAKTHI SUGARS LIMITED
Rector, Dhankal - 705 013
Phone: (08762) 27142, 24710, 24719, 24720
Fax: 0876225297
E-Mail: sakthi@sakthi.com

LETTER OF INDEBT

To: Mr. H. I. C. INTERNATIONAL CO INC
H.O. D-136, Shankar Roadcutty
NEW DELHI - 110 060

Dear Sir,

K.A. Mr. ANIL GUPTA 31

All your product Working Well

Thanking you,
Yours faithfully,
For SAKTHI SUGARS LTD.
R. N. PANDA
DY. MANAGER - MATERIALS
CELL: 09937091063

HEAD OFFICE: 18/BACK BAY RECLAMATION AND 200/10/11/12/13/14/15/16/17/18/19/20/21/22/23/24/25/26/27/28/29/30/31/32/33/34/35/36/37/38/39/40/41/42/43/44/45/46/47/48/49/50/51/52/53/54/55/56/57/58/59/60/61/62/63/64/65/66/67/68/69/70/71/72/73/74/75/76/77/78/79/80/81/82/83/84/85/86/87/88/89/90/91/92/93/94/95/96/97/98/99/100/101/102/103/104/105/106/107/108/109/110/111/112/113/114/115/116/117/118/119/120/121/122/123/124/125/126/127/128/129/130/131/132/133/134/135/136/137/138/139/140/141/142/143/144/145/146/147/148/149/150/151/152/153/154/155/156/157/158/159/160/161/162/163/164/165/166/167/168/169/170/171/172/173/174/175/176/177/178/179/180/181/182/183/184/185/186/187/188/189/190/191/192/193/194/195/196/197/198/199/200/201/202/203/204/205/206/207/208/209/210/211/212/213/214/215/216/217/218/219/220/221/222/223/224/225/226/227/228/229/230/231/232/233/234/235/236/237/238/239/240/241/242/243/244/245/246/247/248/249/250/251/252/253/254/255/256/257/258/259/260/261/262/263/264/265/266/267/268/269/270/271/272/273/274/275/276/277/278/279/280/281/282/283/284/285/286/287/288/289/290/291/292/293/294/295/296/297/298/299/300/301/302/303/304/305/306/307/308/309/310/311/312/313/314/315/316/317/318/319/320/321/322/323/324/325/326/327/328/329/330/331/332/333/334/335/336/337/338/339/340/341/342/343/344/345/346/347/348/349/350/351/352/353/354/355/356/357/358/359/360/361/362/363/364/365/366/367/368/369/370/371/372/373/374/375/376/377/378/379/380/381/382/383/384/385/386/387/388/389/390/391/392/393/394/395/396/397/398/399/400/401/402/403/404/405/406/407/408/409/410/411/412/413/414/415/416/417/418/419/420/421/422/423/424/425/426/427/428/429/430/431/432/433/434/435/436/437/438/439/440/441/442/443/444/445/446/447/448/449/450/451/452/453/454/455/456/457/458/459/460/461/462/463/464/465/466/467/468/469/470/471/472/473/474/475/476/477/478/479/480/481/482/483/484/485/486/487/488/489/490/491/492/493/494/495/496/497/498/499/500/501/502/503/504/505/506/507/508/509/510/511/512/513/514/515/516/517/518/519/520/521/522/523/524/525/526/527/528/529/530/531/532/533/534/535/536/537/538/539/540/541/542/543/544/545/546/547/548/549/550/551/552/553/554/555/556/557/558/559/560/561/562/563/564/565/566/567/568/569/570/571/572/573/574/575/576/577/578/579/580/581/582/583/584/585/586/587/588/589/590/591/592/593/594/595/596/597/598/599/600/601/602/603/604/605/606/607/608/609/610/611/612/613/614/615/616/617/618/619/620/621/622/623/624/625/626/627/628/629/630/631/632/633/634/635/636/637/638/639/640/641/642/643/644/645/646/647/648/649/650/651/652/653/654/655/656/657/658/659/660/661/662/663/664/665/666/667/668/669/670/671/672/673/674/675/676/677/678/679/680/681/682/683/684/685/686/687/688/689/690/691/692/693/694/695/696/697/698/699/700/701/702/703/704/705/706/707/708/709/710/711/712/713/714/715/716/717/718/719/720/721/722/723/724/725/726/727/728/729/730/731/732/733/734/735/736/737/738/739/740/741/742/743/744/745/746/747/748/749/750/751/752/753/754/755/756/757/758/759/760/761/762/763/764/765/766/767/768/769/770/771/772/773/774/775/776/777/778/779/780/781/782/783/784/785/786/787/788/789/790/791/792/793/794/795/796/797/798/799/800/801/802/803/804/805/806/807/808/809/810/811/812/813/814/815/816/817/818/819/820/821/822/823/824/825/826/827/828/829/830/831/832/833/834/835/836/837/838/839/840/841/842/843/844/845/846/847/848/849/850/851/852/853/854/855/856/857/858/859/860/861/862/863/864/865/866/867/868/869/870/871/872/873/874/875/876/877/878/879/880/881/882/883/884/885/886/887/888/889/890/891/892/893/894/895/896/897/898/899/900/901/902/903/904/905/906/907/908/909/910/911/912/913/914/915/916/917/918/919/920/921/922/923/924/925/926/927/928/929/930/931/932/933/934/935/936/937/938/939/940/941/942/943/944/945/946/947/948/949/950/951/952/953/954/955/956/957/958/959/960/961/962/963/964/965/966/967/968/969/970/971/972/973/974/975/976/977/978/979/980/981/982/983/984/985/986/987/988/989/990/991/992/993/994/995/996/997/998/999/1000

Saurashtra Cement Limited
Registered Office
Near Railway Station
Ranavav - 360 560, Gujarat, (India)
Tel. : + 91(02801)230824,25/26/27/28/29
Fax : +91 (02801) 230830/230617
E-mail : scl-rmv@mehtagroup.com
Gram : "SUCCESS"

2nd Feb. 2001

TO WHOMSOEVER IT MAY CONCERN

With reference to your letter dated 15th Jan.'01 this is to inform you that we have installed your H.I.C. UNNIVERSAL Make and Brand Rubber Conveyer Belts on critical installations at Limestone handling area of our 4000 TPD cement plant located at Ranavav. Performance of this Belts is found Highly Satisfactory while comparing to other makes life Andrew Yule. There has been no Stretch Problem and minimum within limit Elongation with smooth functioning observed during last 06 months.

We are happy with quality and urge to keep the same quality standards. Also, the quality and performance of your H.I.C. UNNIVERSAL Make Belts supplied to use is found very very satisfactory.

Shortly forwarding requirement of our other requirements for Conveyer belts and V-Belts manufactured by you.

Wish you all the Best.

A. K. Nanda
Dy. Gen. Mgr.(Mech.)

Corporate Office: Agrima Business Centre, N.K. Mehta International House, 178, Backbay Reclamation, Mumbai-400 020.
Tel : 91 22 56385 390/391, 56385 444 Fax : +91 22 2204 8122 E-mail : scl-mum@mehtagroup.com
Marketing Office : Pelican Building, 7th Floor, Nr. Gujarat Chamber of Commerce, Ashram Road, Ahmedabad - 380 009.
Tel. : (079) 6580135 / 6580137 / 6575979 Fax : (079)6567265, E-mail : scl-ahd@mehtagroup.com

BINANI ZINC LTD.
BINANI PURAM P.O., ERKANTULAM, KERALA, 682202
Phone: 0484-6622323, 6622324, 6622325, 6622326, 6622327, 6622328, 6622329, 6622330, 6622331, 6622332, 6622333, 6622334, 6622335, 6622336, 6622337, 6622338, 6622339, 6622340, 6622341, 6622342, 6622343, 6622344, 6622345, 6622346, 6622347, 6622348, 6622349, 6622350, 6622351, 6622352, 6622353, 6622354, 6622355, 6622356, 6622357, 6622358, 6622359, 6622360, 6622361, 6622362, 6622363, 6622364, 6622365, 6622366, 6622367, 6622368, 6622369, 6622370, 6622371, 6622372, 6622373, 6622374, 6622375, 6622376, 6622377, 6622378, 6622379, 6622380, 6622381, 6622382, 6622383, 6622384, 6622385, 6622386, 6622387, 6622388, 6622389, 6622390, 6622391, 6622392, 6622393, 6622394, 6622395, 6622396, 6622397, 6622398, 6622399, 6622400, 6622401, 6622402, 6622403, 6622404, 6622405, 6622406, 6622407, 6622408, 6622409, 6622410, 6622411, 6622412, 6622413, 6622414, 6622415, 6622416, 6622417, 6622418, 6622419, 6622420, 6622421, 6622422, 6622423, 6622424, 6622425, 6622426, 6622427, 6622428, 6622429, 6622430, 6622431, 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HIC INTERNATIONAL CO INC. dt 01-08-2013
NEW DELHI_110060

Dear Mr. Anil,

We have checked the performance of your below supplies. The second one 2.860Mts Endless SUN CB is found more suitable to our operations and would like to place a repeat order. Please see the enquiry attached and send your confirmation for the last purchase price.

Regards,

Rinto Antony
Dy. Manager - Materials
Binani Zinc Ltd
Binanipuram
Cochin, Kerala
India - 683502
Tel : 0484-6622323
Fax : 0484-6622301

A Infrastructure Limited
(FORMERLY SHREE PIPES LIMITED)
Regd. Office & Works : HAMIRGARH, 311025, Distt. Bhiwara (Rajasthan)

Gram - JAIKIRTI Phone : Works 26268, 84227, 84223, 84230
Fax : (01482) 84232, 21461 PP

28 Jun 88

Mr H.I.C. International Co., Inc
D-136, Shankar Road
New Delhi, 110 060.

Kind Attn: Mr Anil Gupta, Vice President

Dear Sir,

Re: Performance of International make Rubber Conveyer belt supplied by you.

Kindly refer to your letter No.Intl.Perf:A regarding the above. In this connection, we wish to inform you that we had installed the Belt supplied by you on our conveyor Machine sometime in 1998 and it is our pleasure to inform you that the performance of above belt found to be very good.

We are very much satisfied on the quality of your product supplied to us.

Yours faithfully,

Authorized Signatories

JAIPUR OFFICE : SP-1, Vijay Path Triak Nagar JAIPUR, 302004 Tele : 621203, 620598, 620589 Fax : (0141) 622168	DELHI OFFICE : D-83, First Floor Gulmohar Park NEW DELHI, 110049 Tele : 6961849, 6950488, 6955818 Fax : 011-6961358	MUMBAI OFFICE : Rajani House, 2nd Floor Prabhadevi MUMBAI, 400025 Tele : 4307714, 4301197 Telex : 011-76972 AFD IN Fax : (022) 4329879
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Total Quality Management Principles Followed



Performance Certificates

DET NORSKE VERITAS AS
INSPECTION REPORT

AS PER INSPECTION RELEASE NOTE NO.: NDL/2006/212

Manufacturer/Supplier: M/S HIC INTERNATIONAL CO. NEW DELHI - 110060. Manufacturer's Order No.:
Purchaser: M/S IOCL - Guwahati. Purchaser's Order No.: RGRMM52524/17335644 Dt: 19.12.2005.
Destination: M/S IOCL - Guwahati. Plant: 9010, Guwahati Refinery.

IS 1891 (Part 1) - 1988. Approved QAP HIC/IOCL - CALU01 Dt: 11.02.06. P.O: RGRMM52524/17335644 Dt: 19.12.2005.

INSPECTION/TEST RESULTS

Inspection and test as indicated were carried out:
W - WITNESS K - REVIEW
Emotional Check [] Length []
Tensile & Elongation []
Adhesion Testing []
Rubber Cover Thickness []
Hardness []

Marking: The items were inspected and tested in the offered condition and are found to be in accordance with the above specification/standard.

The stamping is placed: NEW DELHI 2006/02/15 K.R.RAO
Place Date Surveyor's sign / stamp

DET NORSKE VERITAS AS
INSPECTION RELEASE NOTE
ONLY VALID IF PRODUCED IN ORIGINAL

Manufacturer / Supplier: M/S HIC INTERNATIONAL CO. Manufacturer's Order No.:
Purchaser: M/S IOCL - Guwahati. Purchaser's Order No.: RGRMM52524/17335644 Dt: 19.12.2005.
Destination: M/S IOCL - Guwahati. Plant: 9010, Guwahati Refinery.

This is to advise that the following items:

Sr. No.	Item Code	Item / Description	Quantity
01	3650900013	CONVEYOR BELT - Grade: M24,Rubber cover skim coated,Cut edges,MILDEW Inhibited. Belt thickness: Min 1mm. Nylon: 400/4.Length: 150 mtrs - 2 Bundles Size: Width: 700mm, Top Cover 6mm, Bottom cover 1.5mm.	150mtrs - 2 Bundles

On the 11/02/2006 above CONVEYOR BELT was inspected and accepted by the undersigned Surveyor to Det Norske Veritas as the items meet the requirements given by customer's specifications/ purchase order.

Refer DNV Inspection Report No.: NDL/2006/212

Identification: Accepted Conveyor belt Tags stamped as "W"

Under completed: Yes No Completion date: 11/02/2006 Continued on separate attachment: Yes No

Original: HIC Copy: HIC Place: NEW DELHI
Copy: ORDER FILE Sign: Date: 11/02/2006

Form no. OP-CI-857-03, rev. 1, 08.03.03 Page 1 of 1

D:\SCAN IMAGES\Reduced\PERFORMANCE Certificate\Redu On 1 Sheet\Scan GIF doc\Saved As\GOVERNMENT\2005-06-CONVEYOR.IOCL.jpg

BHARAT HEAVY ELECTRICALS LTD., JHANSI
(A Government of India undertaking)
P.O. BHEL, JHANSI - 284129
PH. 0517- 2412569, 2412576 FAX 2412120 Email: ykverna@bheljhs.co.in

MATERIAL MANAGEMENT
Supplier Development Cell

To :
M/s H.I.C. INTERNATIONAL CO. INC. H90710
H.O. ANIL HOUSE, D-136
SHANWAR ROAD
NEW DELHI-110060
NEW DELHI 110060

Ref : SDC/MM/24
Date : 16-JUN-08
Subject : Supplier Performance Rating

Dear Sir,

Supplier Performance is evaluated by considering weightage for quality as 60%, for delivery as 30% and for service as 10%. Based on rating thus obtained, categories are made as A1 (preferred supplier) for score between 98 and 100. A for 90 and 97, B between 75 and 89, C between 60 and 74 and D below 60.

Your VENDOR PERFORMANCE RATING is as under :

Rating Factors	QR	DR	SR	Total = QR + DR + SR
Points Obtained	60	30	10	100

Rating : A1

You are requested to please consider above as a feedback on your performance. The period for calculation of SPR is previous year or period for last 3 executed PO's whichever is more.

Note : In case supplier needs any assistance from BHEL for improvement, Concerned Buying Group (MM Deptt) may be contacted.

With best Regards.

Y K VERMA
SR PURCHASE OFFICER (SDC)

This is a computer generated output, signature is not required.

REGD OFF : SIRI FORT, BHEL HOUSE, NEW DELHI - 110049

Many more certificates available as feedbacks are constantly monitored for providing highest customer's satisfaction.

Total Quality Management Principles Followed





Wear-proof.

Strong.

Heat Protected.

Rubber Conveyor Belts

TRUSTED BY MACHINERY OEMs OF MINING, CEMENT, PAPER, SUGAR, GRANITE SINCE 1988

www.rougtopbelting.com | www.frasconveyorbelt.com | www.textileconveyorbelt.com | www.chevronconveyorbelting.com | www.foodconveyorbelts.com
www.conveyorskirt.com | www.pvcbeltjointingmachine.com | www.shrconveyorbelt.com | www.processingbelt.com | www.hicconveyorbelts.com

HIC International Co Inc

D-136, Shankar Road

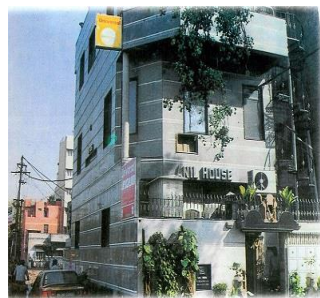
New Delhi 110060 India | Asia

Phone: + 91 (011) 2874 5120, 6547 2400, 3296 1400

Fax: 009111 28742791

E-mail: universal@hic-india.com, belts@universaldelhi.org

Contact Person: Mr Anil Gupta - President, Ms Priyum - Exports Head



HIC India Headquarters

Vendor Data: www.hic-india.com | **Customers List:** www.universaldelhi.org | **Catalogue:** www.rubber-steel-industrial-products.com

