CBC india

C-FLEX
Heavy Duty Rubber Conveyor Belt

C-FLEX Conveyor Belt

C-FLEX Conveyor belts are quality products with an extremely high degree of reliability.
C-FLEX is a qualified manufacturer of different types of conveyor belts meeting all the requirements in most industrial activities.

Contents

Kinds of Conveyor Belt

Types of C-FLEX conveyor belts for each use & application

- General Conveyor Belt
  Nylon/NylonConveyor Belt
  Polyester/Nylon Conveyor Belt
- Heavy Abrasion Resistant Conveyor Belt
- Quarry Supreme Conveyor Belt
- Single Conveyor Belt
- Chemical Resistant Conveyor Belt
- Heat Resistant Conveyor Belt
- Oil Resistant Conveyor Belt
- Heat & Oil Resistant Conveyor Belt
- Flame Resistant Conveyor Belt
- Pipe Conveyor Belt
- Rough Top Conveyor Belt
- Incline (Chevron Cleated) Conveyor Belt
- Steel-Mesh Conveyor Belt
- Sidewall Conveyor Belt

Conveyor Belt Construction

C-FLEX Heavy Duty conveyor and Elevator Belts.

Various kinds of fabric carcass and wide ranges of tension rating make it possible to select the best conveyor belt for the intended application.

Skim Coat
Compounded for excellent adhesion between plies for protecting against ply separation.

Top Cover
Designed to protect the carcass from service conditions like oil, heat, abrasion etc.

Bottom Cover
Excellent in abrasion and flexibility, provides wearing surface against pulleys and idlers.

Carcass
Extremely low stretch characteristics of fabric and good troughability.

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Selection of Conveyor Belt by Service Conditions

General Conveyor Belt

Nylon / Nylon Conveyor Belt
Polyester / Nylon Conveyor Belt

Heavy Abrasion Resistant Conveyor Belt

Quarry Supreme Conveyor Belt

Single-Ply Conveyor Belt

Selection of Cover Rubber & Carcass Grade for General Purpose Conveyor Belt

Applications

It's suitable for the wide ranges of operating conditions.
The bulk handling conveyor belt is widely utilized in the industrial fields of mining, steel making, engineering works, cement, quarry industries.
Depending on cover rubber selection it will be suitable for both conveyor and elevator services.

The high quality of cover rubber to provide outstanding resistance to sharp and abrasive materials and recommended for transporting coal, crushed ores, rock and granite etc.

Cover Rubber Grade

RMA-1 DIN-X.M BS-M24 AS-M JIS-S	These cover rubber grades have the characteristics to provide the highest abrasion resistance and cut-and-gouge resistance as well as ozone. These cover rubbers are used for heavy Impact, large sized lumps, sharp materials.
RMA-2 DIN-Y.N BS-N17 AS-N JIS-G	These cover rubber grades are widely used for general conveyor belts and superior resistance to abrasion, ozone, cutting and gouging and suitable for handling crushed rock, limestone, coal, slag, etc.

Carcass Grade (EP & NN)

Grade (kg/cm)	2-ply	3-ply	4-ply	5-ply	6-ply
160	160/2				
200	200/2				
250	250/2	250/3			
315	315/2	315/3			
400	400/2	400/3	400/4		
500		500/3	500/4	500/5	
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
1600			1600/4	1600/5	1600/6
2000				2000/5	2000/6

Cover Rubber Thickness

Condition		Moderately Abrasive	Abrasive	Very Abrasive	Extremely Abrasive
Material Carried		Fine Coal, Grain, Wood Chips, Ash Cement, etc.	Sand, Coal, Clay, Salt, etc.	Limestone, Crushed Stone, Coke, etc.	Ores, Slag, Cullet, etc
Lump Size / Belt Cycle (Second)	inch	0 ~ 2" (0~50mm)	2" ~ 6" (50~150mm)	6" ~ 10" (150~250mm)	8" ~ 12" (200~300mm)
0 ~ 20	inch	1/16 ~ 1/8 (1.5~3.0mm)	1/8 ~ 3/16 (3.0~5.0mm)	3/16 ~ 1/4 (5.0~6.0mm)	1/4 ~ 5/16 (6.0~8.0mm)
20 ~ 60	inch	1/16 ~ 3/32 (1.5~2.5mm)	1/8 ~ 3/16 (3.0~5.0mm)	3/16 ~ 1/4 (5.0~6.0mm)	1/4 ~ 5/16 (6.0~8.0mm)
60 ~ 300	inch	1/16 ~ 3/32 (1.5~2.5mm)	1/8 ~ 3/16 (3.0~5.0mm)	3/16 ~ 1/4 (5.0~6.0mm)	1/4 ~ 5/16 (6.0~8.0mm)

Nylon / Nylon Conveyor Belt
Polyester / Nylon Conveyor Belt

This Construction utilizing all nylon, offers maximum impact and damage resistance from material and suitable for transporting a variety of materials : ore, crushed stones, grain, sand, etc. Several types of carcass using nylon/nylon fabrics with various thickness are available according to the load conditions.

Nylon Fabric (NN) Conveyor Belt

Item \ Grade		NN100	NN120	NN150	NN200	NN250	NN300	NN350	NN400	NN500
Min. Tensile Strength	kg/cm-ply	100	120	150	200	250	300	350	400	500
Working Tension Rating (Vulcanized)	kg/cm-ply	8.4	10.0	12.5	16.7	20.8	25.0	29.2	33.3	41.7
Approx, Gauge per Ply with skim coat.	mm	0.90	1.05	1.10	1.35	1.40	1.55	1.80	1.90	2.30

Special Features

- Exceptionally shock & impact resistance to the carrying surface.
- Superior in fastener holding ability.
- Excellent troughability and flexibility.
- Smaller pulley available.
- Greatest resistance to water and mildew.

The combination of polyester in warp and nylon in filling provides technically low-stretch, high impact abuse resistance.

Polyester Fabric (EP) Conveyor Belt

Item \ Grade		EP100	EP125	EP150	EP200	EP250	EP300	EP350	EP400	EP500
Min. Tensile Strength	kg/cm-ply	100	125	150	200	250	300	350	400	500
Working Tension Rating (Vulcanized)	kg/cm-ply	10.0	12.5	15.0	20.0	25.0	30.0	35.0	40.0	50.0
Approx, Gauge per Ply with skim coat.	mm	0.90	1.05	1.15	1.35	1.45	1.65	1.75	2.35	2.95

Special Features

- High resistance to tension.
- Low elongation.
- Outstanding stability dimensionally.
- Impact resistance.
- Complete moisture & mildew protection.

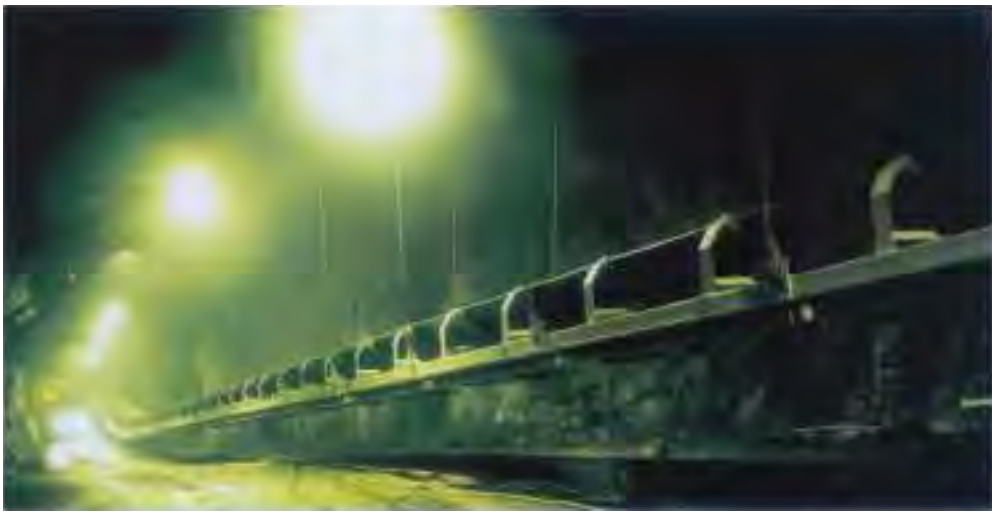
Heavy Abrasion Resistant Conveyor Belt

Fabric Grade (Tensile strength : kg/cm)

Fabric \ Ply	3p	4p	5p	6p
NN - 100	300	400	500	600
NN - 120	360	480	600	720
NN - 150	450	600	750	900
NN - 200	600	800	1000	1200
NN - 250	750	1000	1250	1500
NN - 300	900	1200	1500	1800
NN - 350	1050	1400	1750	2100
NN - 400	1200	1600	2000	2400
EP - 100	300	400	500	600
EP - 125	375	500	625	750
EP - 150	450	600	750	900
EP - 200	600	800	1000	1200
EP - 250	750	1000	1250	1500
EP - 300	900	1200	1500	1800
EP - 350	1050	1400	1750	2100
EP - 400	1200	1600	2000	2400

This belt is designed for the ultimate resistance to abrasion, and recommended for transporting abrasive materials. Equivalent to DIN-W and AS-A grade with less than 90 Cu.mm abrasion loss. This conveyor belt is developed to assure you longest belt lifetime and suitable for conveying glass, cullet, granite, trap rock and other abrasive materials.

Flame Resistant Conveyor Belt



Flame resistant conveyor belt is designed for the best service conditions of coal mining industries.
It is suitable for mining, power plant, electric utilities, coal cleaning plants. The different rubber compounds are available in accordance with its requirement.

Cover Rubber Grade

Type	Cover Rubber				Special Features
	Min. Tensile Strength		Min. Elongation	Application Grade	
	kg/cm²	psi	%		
FR	170	2400	450	ISO, DIN CAN CSA-M-422-M87	Requiring fire resistance, static conductivity. Self-extinguishable cover rubber and meets drum friction test.

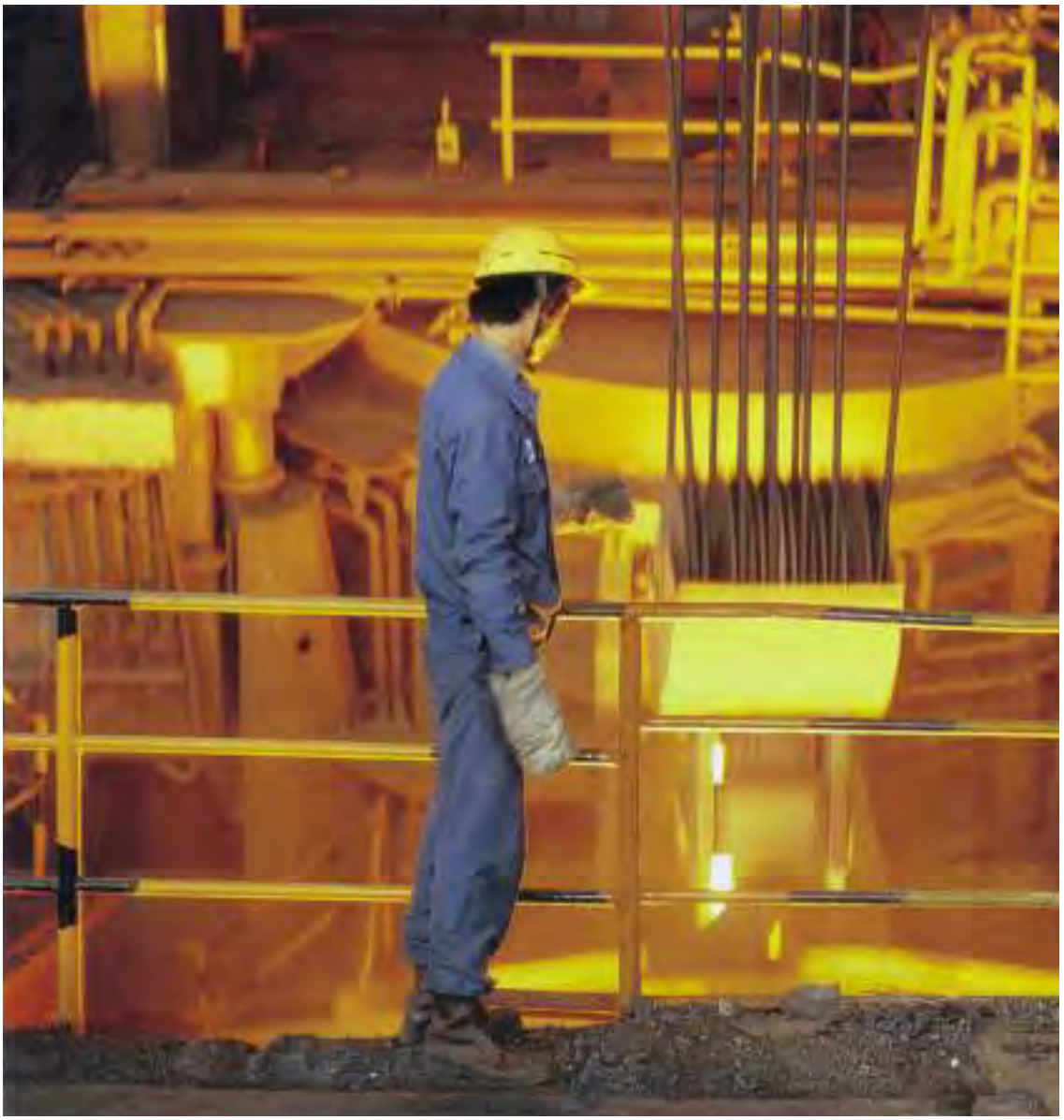
Special Features

- FR grade is specially compounded Neoprene cover rubber for the under-ground
  operating requiring fire resistance, static conductivity. The important characteristic is self- extinguishable cover rubber and meets drum friction test.

Heat Resistant Conveyor Belt

The Performance-proved C-FLEX heat resistant belt meets hot service application like hot sintered ore, hot pellet, hot clinker, hot chemical, fertilizer and hot cement etc.

C-FLEX heat resistant conveyor belt are most suitable for heat resistant applications where the temperature of material to be carried is over 60°C(140°F).



Special Feature of Each Grade

Grade	Special Features	Belt Surface Temperature
HRT-1	HRT-1 grade heat resistant belt is premium quality SBR rubber compound with very good abrasion resistance and heat resistance to handle hot materials up to 200°C. This Grade belt is highly resistant to variety of heat applications and good service for iron ore, pellets, casting sand, coke and limestone etc.	100°C ~ 150°C
HRT-2	HRT-2 grade is IIR (butyl rubber) hot belt compound features excellent heat resistance which is designed to carry hot loads materials with non-cracking property. This belt is most suitable for the materials such as cement products, limestone, clay, slag, etc.	150°C ~ 180°C
HRT-3	HRT-3 grade are the highest quality conveyor belt available to maximum heat resistance. Cover rubber is specially formulated EPR (ethylene propylene rubber) to provide extreme heat resistance and ply adhesion for the applications to handle hot cement, clinker, phosphate, hot sintered ore and hot chemical, fertilizer, etc.	200°C ~ 220°C

Special Features

- Excellent heat resistant and abrasion resistant cover rubber compound.
- Recommended to protect conveyor belt from surface cracking and hardening by heat.
- Specially heat-treated and dipped fabric to minimize carcass shrinkage by heat ageing.

Characteristics indispensably required for heat resistant conveyor belt are as follows

- Rubber cover and carcass should not deteriorate due to heat.
- Rubber cover and carcass should maintain excellent properties, even at high temperatures.
- Rubber cover and carcass should maintain good adhesion to form one unit even when they are exposed to high temperatures.

The surface temperature of heat resistant conveyor belt varies with the material type, belt speed, loading rate and size depending on circumstance condition.

In order to select the proper heat resistant conveyor belt, it is necessary to consider not only the material temperature to be conveyed but also the surface temperature of conveyor belt.

Kinds of Materials and Belt Surface Temperatures

Materials Carried	Lump Size	Temperature of Materials Carried	Belt Surface Temperature
Sintered Ore	25~200mm (1~8 inch)	*200~400°C	130~150°C
Return of Sintered Ore	below 10mm (0.4 inch)	260°C	150~190°C
Coke	100~200mm (4~8 inch)	70~100°C	50~60°C
Raw Material	below 30 mm (1.2 inch)	180~220°C	100~120°C
Clinker	10~30 mm (0.4~1.2 inch)	100~220°C	100~110°C
Cement	Powder	100~250°C	80~90°C
Metal Powder		170°C	120~130°C
Moldings		200~250°C	80~90°C

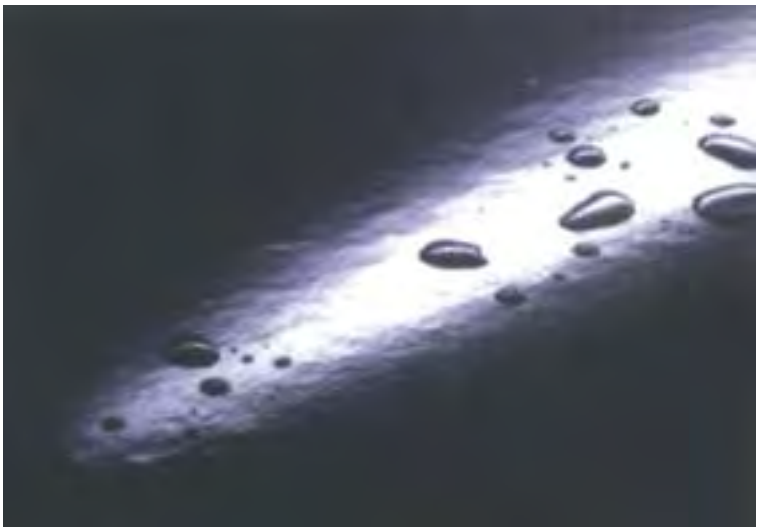
C-FLEX HRT-3 conveyor belt is the best selection for wide ranges of high temperature application. HRT-3 conveyor belt is recommended for use high temperature and where high wear resistance is required.

User of attention

The temperature of material being transported and the belt's surface temperature vary according to the material and shape. For instance, when material have a temperature of 150°C (such as coke or sintered ore) and have a relatively small contact area with conveyor belt's surface temperature remains at 60~80°C.
In contrast when powdered material like cement is being conveyed, the material temperature and the belt surface temperature do not differ so greatly. The lifetime of heat resistant belt is largely affected by belt's surface temperature during operation.

Oil Resistant Conveyor Belt
Heat & Oil Resistant Conveyor Belt

The cover rubber is especially compounded for the applications requiring resistance to oils. It has outstanding abrasion, ozone and weather resistance. This conveyor belt is recommended for the conveyor lines causing swelling and sponginess by oils.



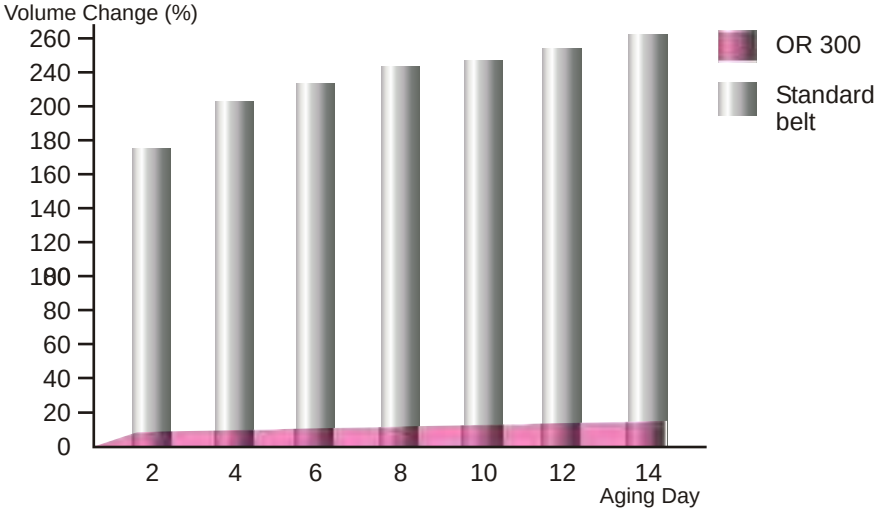
Special Features

- OR-300 grade has excellent resistance to the toughest oil application such as oil-treated coal, petroleum based oils.
- OR-200 is grade has superior oil resistance to various kinds of animal and vegetable oil with severe cold temperature up to - 45°C (50°F).
- OR-100 grade is to resist to Moderate Oil Resistant operations like wood chips, linseed, cottonseed and whole soybeans where static conductivity is needed.
- HTN grade is recommended for conveying hot asphalt with temperature up to 175°C (350°F) where both oil & heat resistance are required.

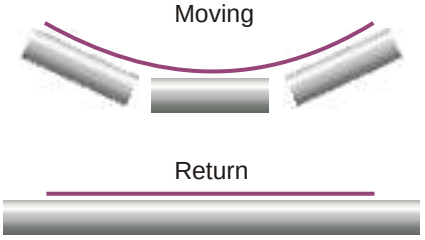
Cover Rubber Grade

Type	Cover Rubber				Use
	Min. Tensile Strength		Min. Elongation %	Volume Change ASTM # 3 Oil	
	kg/cm²	psi			
OR-300	160	2250	Min 500	Max 20	Oily metal parts, crushed soybeans, automatic hydrocarbons such as benzol, toluene and petroleum based oils.
OR-200	120	1700	Min 500	Max 90	Oil-treated materials and for carrying oily metal turnings and shavings, crushed soybeans, animal or vegetables fats.
OR-100	140	2000	Min 450	Max 150	Wood chip, linseed, cottonseed, kernel corn, and whole soybeans, static conductivity and moderate oil resistance.
HTN	120	1700	Min 500	Max 60	Hot asphalt, coke whafs, and other oil & heat resistant applications.

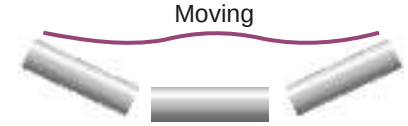
OR-300 Resistant



• Excellent (Oil Resistant Belt)



• Swelled by Oil (Standard Belt)



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Selection of Conveyor Belt by Service Conditions

Pipe Conveyor Belt

Rough Top Conveyor Belt

Incline(Chevron Cleated) Conveyor Belt

Steel Mesh Conveyor Belt

Sidewall Conveyor Belt

Pipe Conveyor Belt

C-FLEX pipe conveyor belt is designed to be suitable for the resistance to flex fatigue and abrasion by materials to be carried and superior ply adhesion.

Special Features

C-FLEX Pipe Conveyor belt was developed for the special purposes such as

- Closed transportation in order to prevent materials from overflowing, drop-down, scattering and mixing with foreign materials from outside.
- This pipe conveyor belt is economical for curve (45°~90°) and incline (up to 30°) transportation due to easy design of conveyor line and limited space.

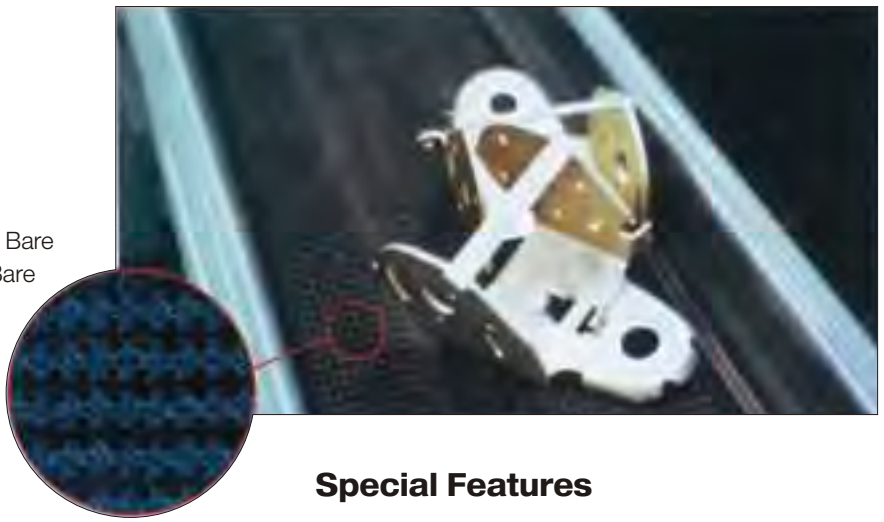
Special Feature os Each Grade

Pipe Diameter (mm)	Cross Section Area (75%)	Belt Speed (m/min)	Capacity (m^2/hr)	Material Size (mm)	Comparison with standard C/Belt (mm)
150	0.013	120	95	30 ~ 50	300 ~ 500
200	0.023	130	180	50 ~ 70	500 ~ 600
250	0.041	140	344	70 ~ 90	600 ~ 750
300	0.049	145	441	90 ~ 100	750 ~ 900
350	0.066	175	693	100 ~ 120	900 ~ 1,050
400	0.108	200	1,296	120 ~ 150	1,050 ~ 1,200
500	0.155	225	2,093	150 ~ 200	1,200 ~ 1,500
600	0.216	250	3,240	200 ~ 250	1,500 ~ 1,800
700	0.290	275	4,620	250 ~ 300	1,800 ~ 2,000
850	0.404	300	7,272	300 ~ 400	2,000 ~ 2,200

Rough Top Conveyor Belt
Incline (Chevron Cleated) Conveyor Belt

Type of Rough Top Belt

- 2ply Black roughtop x Bare
- 2ply Tan roughtop x Bare
- 3ply Black roughtop x Bare
- 3ply Tan roughtop x Bare
- 3ply Blown Nitrile roughtop x Bare
- 3ply Blue Nitrile roughtop x Bare

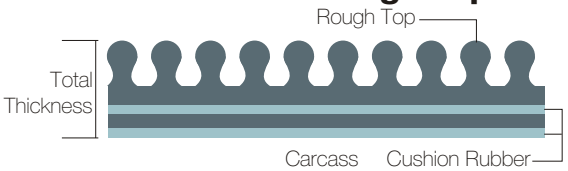


This belt was designed for transporting fragile or easily deformed goods such as glass, paper bags, carton box etc. The slip resisting surface is ideal for steep oncline/ decline applications.

Special Features

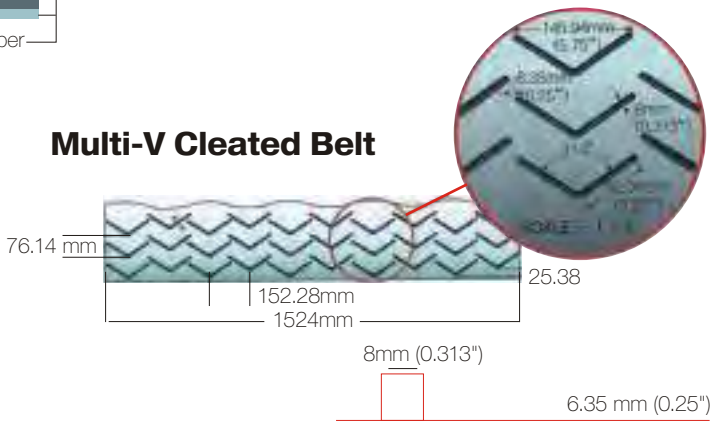
- Cushioning effect absorbs vibration and reduces slippage.
- Usable at the angle of 25~35 degrees, depending on goods to be carried.
- Low friction coefficient with bare back bottom.
- Two or three plies of synthetic fabrics provide high strength and flexibility.
- Various colored cover rubbers are available on requests.

Structure of Rough Top

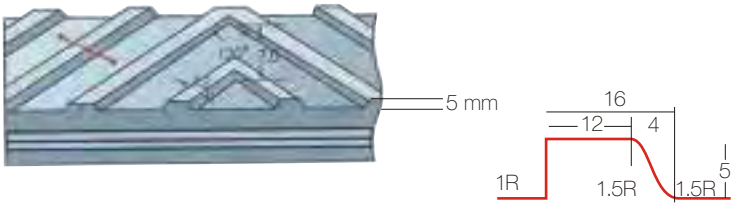


Incline (Chevron-Cleated) conveyor belt is used to carry coal and mineral core, powdery such as sand, fine coal and grain materials up steep inclines. Chevron-Cleats increase the quantity of granular materials in heavy duty incline applications.

Multi-V Cleated Belt



V Cleated Incline Belt



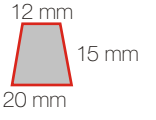
Special Features

- High quality fabric with low stretch.
- Cleat angle and pitch are designed for smooth travel over return idlers.
- Higher angle of 17~30 degree of incline.
- Wear resistant and oil resistant black rubber quality is available.

Steep Incline Belt (C15 Type)

A Belt Width	B Pattern Width	C Pitch
500	385	250
600	385	250
650	385	250
750	600	370
900	600	370
1,000	600	370

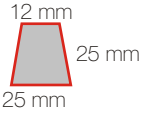
(Unit : mm)



Steep Incline Belt (C25 Type)

A Belt Width	B Pattern Width	C Pitch
650	550	250
650	550	250
750	550	250
800	550	250
900	750	330
1,000	750	330
1,050	750	330
1,200	750	330

(Unit : mm)

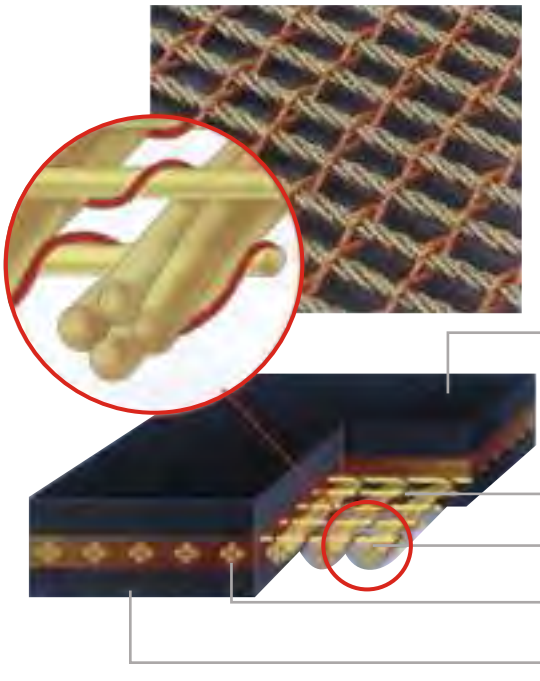


Steel Mesh Conveyor Belt

Special Features

- The smaller elongation for steel mesh belt reduces the length of take-up.
- Excellent adhesion between steel mesh and cover rubber to resist flex fatigue and impact.
- Single carcass reinforcement has much better flexibility.
- Steel mesh belt offers superior resistance to the repeated impacts.
- Easy splicing by finger type vulcanizing joint.

The special design of steel mesh conveyor belt consists of brass-coated steel cords in both warp and filling directions. This steel mesh conveyor belt was developed to solve the problem with longitudinal cutting, tearing in conventional steel cord belt.



Structure of Belt

Cover Rubber
Designed to meet particular services.

Binder Yarn

Steel Cord(Weft)

Steel Cord(Warp)

Bottom Rubber

Steel Mesh Grade (IW-Type)

Grade		IW350	IW500	IW630	IW800	IW1000	IW1250	IW1600
Tensile Strength (Warp)	kg/cm	350	500	630	800	1000	1250	1600
Tension Rating	kg/cm	35	50	63	80	100	125	160
Tensile Strength (Weft)	kg/cm	90	90	90	125	125	175	175
Carcass Thickness	mm	3.2	3.2	3.2	4.5	4.5	6.0	6.0
Weight	kg/m²	1.85	2.45	2.95	4.15	5.00	6.35	7.90
Pulley Diameter	mm	350	350	350	400	500	600	650

Steel Mesh Grade (IWR-Type)

Grade		IW630R	IW800R	IW1000R	IW1250R	IW1400R	IW1600R	IW1800R	IW2000R
Tensile Strength (Warp)	kg/cm	630	800	1000	1250	1400	1600	1800	2000
Tension Rating	kg/cm	63	80	100	125	140	160	180	200
Tensile Strength (Weft)	kg/cm	200	200	200	200	200	200	200	200
Carcass Thickness	mm	5.0	5.6	5.6	6.4	6.4	7.2	7.2	7.2
Weight	kg/m²	3.45	4.35	5.20	6.40	6.90	7.90	9.10	9.80

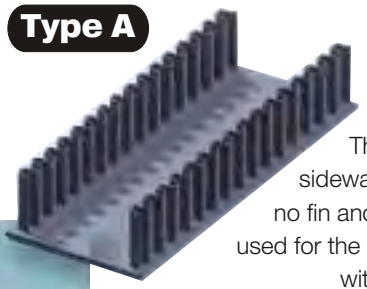
Side wall Conveyor Belt

This belt is designed with two corrugated sidewalls molded to cross-rigid base belt. This belt is developed in order to meet larger capacities with considerable stability and strength.

Cross Rigid Base Belt

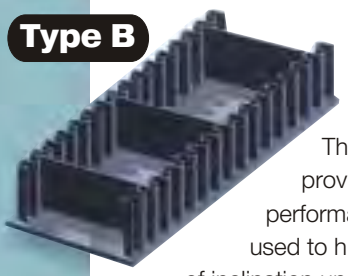
In order to give maximum stability in the transverse direction this basebelt is reinforced with specially designed filament fabrics which provides better returnside support, no wear and tear of cleats and cover rubber is available with various compounds like abrasion resistance, oil heat, flame resistance.

Type A



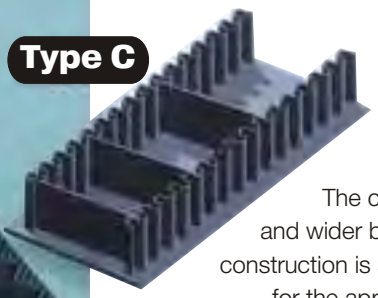
This type of sidewall belt has no fin and normally used for the inclination within 0~16°

Type B



The cross-fin provides better performance to be used to high degree of inclination up to 15~60°

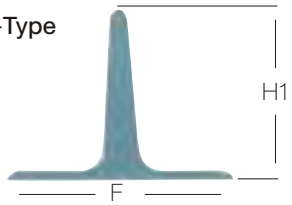
Type C



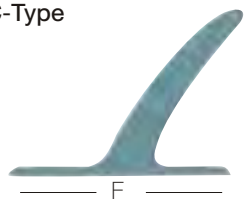
The cross-fin and wider basebelt construction is suitable for the application up to more than 60°

Fin Type

- T-Type



- C-Type



Special Features

- Increase the transporting capacity to 4 times compared to standard conveyor belt.
- Save installation space due to the possibility of increasing the angle of inclination up to 90°.
- Protect the material from friction by solid cleats mounted on the belt.

Comparison of Cross Section Area

- Cross Rigid Base Belt
- Standard Conveyor Belt

Various Installation

THE STEEL CARCASS CONSTRUCTION

The C-FLEX Elevator Belts are constructed with specially designed straight warp "open type" steel cords with built-in elasticity, E-cords, in the warp direction onto which rigidity improving weft cords are tied using a special weaving techniques.

This special structure means that neither the warp nor the weft cables are deformed in any way, but they lay perfectly straight all over the belt length, resulting in maximum strength performance and high resistance to damage.

The open steel E-cords allow maximum rubber penetration, minimizing corrosion penetration in case of belt damage and resulting in very high rubber to steel adhesion.

The rubber penetration deep into the warp cables functions as lubricant for the twined steel wires forming the cords increasing the elasticity of the E-cords.

C-FLEX Steel Carcass

Low Elongation

C-FLEX elevator belts display only 0.3% permanent elongation at maximum recommended working load (safety factor 10), ensuring consultant belt tension, even at long centre distances.

As a unique feature the steel carcass displays an elastic elongation of 0.15%, increasing shock resistance and allowing the belts to run over slightly crowned pulleys, thus further greatly improving the straight tracking ability of this belt quality, The elastic elongation is the variation in belt length when subjected to a load variation between 20% and 100% of the maximum recommended load at 10-fold safety factor.
In contrast to C-FLEX belts most conventional steel cable belts lack elasticity and as a consequence have to run over truly flat, cylindrical pulleys increasing the risk of belts off-tracking.

Standard Belt construction

Strength/construction		Belt thickness
SW 630 3+3	mm	11 mm
SW 800 3+3	mm	12 mm
SW 1000 3+3	mm	12 mm
SW 1250 4+4	mm	15 mm
SW 1400 4+4	mm	15 mm
SW 1600 4+4	mm	15 mm
SW 1800 4+4	mm	15 mm
SW 2000 4+4	mm	15 mm

Recommended minimum covers.
Other combinations to order.

Belt Carcass Construction

Type	Warp cords diam.	Pitch
SW 630	2.00 mm	4.63 mm
SW 800	2.85 mm	6.67 mm
SW 1000	2.85 mm	5.38 mm
SW 1250	3.90 mm	7.04 mm
SW 1400	3.90 mm	6.25 mm
SW 1600	3.90 mm	5.00 mm
SW 1800	3.90 mm	5.50 mm
SW 2000	3.90 mm	4.65 mm

Weft Cords

standard diameter	1.29 mm
pitch	6.67 mm

alternating on each belt face.

Carcass of C-FLEX belt with cable free zones during production

Subject to alterations without prior advice.

The Elasticity of the E-cords

The elasticity of the E-cords is not to be confused with the elongation. E-cords offer the following advantages over conventional steel cords.

- improved compression behaviour
- improved shock resistance
- favourable permanent elongation max 0.3%
- excellent rubber penetration
- extremely high pull out forces.

The result is a belt suitable for running over slightly crowned pulleys greatly improving belt tracking and avoiding belt wandering which is often the reason for elevators shutting down.

In comparison conventional steel cable belts must run over flat pulleys.

The rigid weft cords act as a barrier to ripping and tearing and increase the bolt holding ability for bucket bolts and produce a good cross rigid belt allowing perfect tracking.

Please consult our technical department for pulley crown recommendations.

High Safety Factor for Bucket Attachments

C-FLEX Elevator Belts are reinforced with a steel cable carcass with warp cables of 2.85 mm or 3.90 mm diameter at variable pitch, depending on belt strength class, and weft cables of 1.29 mm diameter at fixed pitch of 6.67 mm alternating on both faces of the warp cables.

This dense warp and weft construction provides extra safety for the attachment of the bucket bolts and endlessing clamp bolts and gives high longitudinal rip resistance.

Cable Free zones

Cable free zones for drilling bucket bolt holes are available per customer specification as an option without extra charge.
See below "bucket bolt holes".

Min. Pulley Diam./Approx. Weight

Type	mm	kg/m²
SW 630	400	15,00
SW 800	500	17,00
SW 1000	500	18,00
SW 1250	630	22,00
SW 1400	630	23,00
SW 1600	630	24,00
SW 1800	630	24,50
SW 2000	800	25,00

Data valid for standard belt construction (see above).
For each additional mm cover thickness ad 1.25 kg/m2.

Dimensional Limitations

miniimum width	300 mm
maximum width	1400 mm
minimum length	50 m
max. roll weight	4000 kgs

Tolerances acc. DIN standard

Roll shipping dimensions

Belt thickness	Belt length m.			
	75	100	125	150
12 mm	1.09	1.25	1.40	1.55
13 mm `	1.13	1.30	1.45	1.59
15 mm	1.21	1.40	1.56	1.70

Roll diameter in meters
for standard belt thicknesses.

Carcass of C-FLEX belt with cable free zones during production

Subject to alterations without prior advice.

C-FLEX STEEL CORD BELT FOR BUCKET ELEVATOR

The C-FLEX belt for bucket elevators is a steel carcass rubber covered elevator belt constructed with special quality, low elongation yet high elasticity steel cords in the length and cross rigid cables in the width. Their construction and characteristics differ from those of traditional steel cable belts.
They are destined for heavy duty industrial applications with long centre distances, requiring stable running and reliable belts with high safety factor.

C-FLEX Elevator Belts consist of a steel carcass in a solid rubber mass that cannot delaminate. The built-in elasticity allows running over slightly crowned pulleys while the cross rigid weft construction results in excellent straight tracking characteristics.

The C-FLEX Elevator Belt program offers a choice of very high abrasion resistant rubber covers or excellent high-heat resistant qualities.

Qualities

C-FLEX belts are available in four different qualities :

1) Type T60, a high abrasion resistant quality on SBR basis
2) Type T100, a heat resistant quality on modified SBR basis
3) Type T130, a high-heat resistance quality on EPDM basis
4) Type CR, an oil resistant quality on Neoprene basis.

Cover thickness on pulley face and bucket face as per customer specification or standard arrangement.

Type T100 and T130 are destined for use in ambient temperatures of respectively 100°C and 130°C maximum with short duration peak temperatures of respectively 100°C and 150°C.

Type T130 is successfully in use in various plants handling product with temperatures up to 165°C. Although the belt life in such operational conditions is shorter than achieved at the recommended maximum temperature of 130°C, the life in these conditions is still very acceptable and the belts give a satisfactory economic life.
The deciding factor is the reigning ambient temperature inside the elevator casing.

Manufacturing norms

All belt types are manufactured in accordance with DIN 22102 and ISO norms.

Fields of application

- cement factories
- fly ash elevators in power plants
- fertilizer plants
- foundries
- concrete mixing plants
- glass factories
- grain elevators in port silos

Belt qualities

Type T60	highly abrasion resistant max. ambient temp.60°C cover hardness 60°A shore
Type T100	highly abrasion resistant max. ambient temp. up to 100°C continuous, short peaks 110°C cover hardness 64°A shore
Type T130	good abrasion resistant max. ambient temp. up to 130°C continuous, short peaks 150°C cover hardness 66°A shore
Type CR	oil and fat resistant anti-static ISO 284 flame retardant ISO 340 cover hardness 70°A shore

For high temperature applications consult our technical department.

Subject to alterations without prior advice.

CBC india

207, Janmabhoomi Chambers,
Walchand Hirachand Marg,
Ballard Estate, Mumbai - 400 038. INDIA
Tel.: 91-22-6610 6000 Fax : 91-22-6610 4100
E-mail : conveyor@vsnl.com
website : http://www.sanghvigroup.com