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STRONGFLEX is a professional manufacturer and exporter of Conveyor Belt in China.

"CONSECUTIVE GOOD QUALITY ! BOTTOM LOWEST PRICES! TIMELY DELIVERY ! " has won a good prize and reputation from market for us. Strongflex People will take this as a good chance, and will sincerely and friendly cooperate with friends from all the world.

Note: Products can be produced according to clients' request

STRONGFLEX CONVEYOR BELT

Add : No.172 Xinhua Road, Shijiazhuang, Hebei, China

Phone: 0086-311-87187255 / 87663100

Fax: 0086-311-87872393 / 87663100

E-mail: strongflex@yahoo.cn

MSN: strongflex@hotmail.com

Website: <http://www.strongflex.com>

Steel Cord Conveyor Belt

Standards: GB9770-88, MT147, MT668, DIN22131, JISK6369, AS1333 etc.

Structure: The belt core is comprised of longitudinally and evenly arranged non-spinning galvanized wire ropes and high adhesive core rubber, with the upper side and lower side covered with rubber layer.

Features: High tensile strength, long service life, short elongation under service, good groove formation property and good anti-flexure property, suitable for conveying materials across long distance, with large volume and high speed.

Types: According to structure: General type, Impact resistance and Rip resistance transverse type. According to application: besides General-used steel cord belt, there are some kinds of Fire-retardant type, Cold-resistant type, Wear-resistant type, Heat-resistant type, Acid and alkaline resistant type, Oil-resistant type, High-grade type and etc.

Model: ST630,ST800,ST1000,ST1250, ST1600,ST2000, ST2500, ST3150, ST3500, ST4000,ST4500,ST5000,ST5400.



1) Standard belt specification:

| Belt strength (st-NO.) | Max. Diameter of Cord (mm) | Pitch of Cord (mm) | Standard working tension (N/mm) | Standard cover Thickness (mm) | Belt weight (Kg/m ²) | Min. pulley diameter (mm) | Cord strength (KN/piece) |
|------------------------|----------------------------|--------------------|---------------------------------|-------------------------------|----------------------------------|---------------------------|--------------------------|
| St-630 | 3.0 | 10 | 90 | 5x5 | 19.1 | 800 | 6.93 |
| St-800 | 3.5 | 10 | 110 | 5x5 | 20.6 | 800 | 8.8 |
| St-1000 | 4.0 | 12 | 140 | 6x6 | 24.7 | 800 | 13.2 |
| St-1250 | 4.5 | 12 | 175 | 6x6 | 25.4 | 800 | 16.5 |
| St-1600 | 5.0 | 12 | 225 | 6x6 | 26.0 | 1000 | 21.12 |
| St-2000 | 6.0 | 12 | 285 | 8x6 | 30.0 | 1000 | 26.4 |
| St-2500 | 7.2 | 15 | 355 | 8x6 | 32.2 | 1250 | 41.25 |

| | | | | | | | |
|---------|------|----|-----|---------|------|------|-------|
| St-3150 | 8.1 | 15 | 450 | 8x8 | 35.7 | 1400 | 51.98 |
| St-3500 | 8.6 | 15 | 500 | 8x8 | 44.9 | 1500 | 57.7 |
| St-4000 | 8.9 | 15 | 570 | 8x8 | 46.6 | 1600 | 66 |
| St-4500 | 9.7 | 16 | 645 | 8x8 | 49 | 1800 | 79.2 |
| St-5000 | 10.9 | 17 | 715 | 8.5x8.5 | 53.6 | 1800 | 93.5 |
| St-5400 | 11.3 | 17 | 760 | 9x9 | 57.6 | 2000 | 101 |

2) Numbers of steel cords:

| belt width (mm) | St630 | St800 | St1000 | St1250 | St1600 | St2000 | St2500 | St3150 | St3500 | St4000 | St4500 | St5000 | St5400 |
|-----------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 800 | 75 | 75 | 63 | 63 | 63 | 63 | 50 | 50 | 50 | | | | |
| 1000 | 95 | 95 | 79 | 79 | 79 | 79 | 64 | 64 | 64 | 64 | 59 | 55 | 55 |
| 1200 | 113 | 113 | 94 | 94 | 94 | 94 | 76 | 76 | 77 | 77 | 71 | 66 | 66 |
| 1400 | 133 | 133 | 111 | 111 | 111 | 111 | 89 | 89 | 90 | 90 | 84 | 78 | 78 |
| 1600 | 151 | 151 | 126 | 126 | 126 | 126 | 101 | 101 | 104 | 104 | 96 | 90 | 90 |
| 1800 | | 171 | 143 | 143 | 143 | 143 | 114 | 114 | 117 | 117 | 109 | 102 | 102 |
| 2000 | | | 159 | 159 | 159 | 159 | 128 | 128 | 130 | 130 | 121 | 113 | 113 |
| 2200 | | | | | | 176 | 141 | 141 | 144 | 144 | 135 | 125 | 125 |
| 2400 | | | | | | 193 | 155 | 155 | 157 | 157 | 146 | 137 | 137 |

3) Cover rubber property and grades:

| Test items | | Property indexes | | | | | | |
|--|----------|------------------|---------|---------|---------|----------|---------|---------|
| | | GB9770-2001 | | | | DIN22131 | | |
| | | D | H | L | P | W | X | Y |
| Tensile strength | Mpa ≥ | 18 | 25 | 20 | 14 | 18 | 25 | 20 |
| Elongation at break | % ≥ | 400 | 450 | 400 | 350 | 400 | 450 | 400 |
| Aging test (70°C.7D) change rate of tensile strength | % | -25~+25 | -25~+25 | -25~+25 | -25~+25 | -25~+25 | -25~+25 | -25~+25 |
| Abrasion (MM3) | ≤ | 90 | 120 | 150 | 200 | 90 | 120 | 150 |

4) Adhesion of steel cord

| Strength | St 630 | St 800 | St 1000 | St 1250 | St 1600 | St 2000 | St 2500 | St 3150 | St 3500 | St 4000 | St 4500 | St 5000 | St 5400 |
|---------------------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Adhesion N/mm GB9770-2001 | 60 | 70 | 80 | 95 | 105 | 105 | 130 | 140 | 145 | 150 | 165 | 175 | 180 |
| Adhesion N/mm DIN22131-88 | 60 | 70 | 80 | 95 | 105 | 105 | 130 | 140 | 145 | 150 | 165 | 175 | 180 |

Note: The length of single roll of conveyor belt is 100m-300m, depending on its thickness, width, transportation and installation conditions. The length shall be determined through discussion of supplier and buyer.

Polyester Canvas (EP) Conveyor Belt

The polyester conveyor belt is also called EP conveyor belt. It's framework material is the polyester canvas interwoven with meridian terylene and latitudinal polyamide fiber. It is characterized with

excellent endurance, good water-resistance, no lowering of strength in humidity, mildew-proof, and high load of initial models. It is applicable to convey materials in medium and long distance, with high-load, and at high speed.



1). Specification and technical data of multi-ply polyester conveyor belt

| Fabric Type | Fabric Structure | | Fabric Spec. | Ply Thick (mm/p) | Strength series (N/mm) | | | | | Cover Rubber Thickness (mm) | | Width (mm) | Length (m) |
|----------------|------------------|---------------|--------------|------------------|------------------------|------|------|------|------|-----------------------------|-------|------------|------------|
| | Wrap | Weft | | | 2Ply | 3Ply | 4Ply | 5Ply | 6Ply | Up | Low | | |
| Polyester (EP) | Polyester (E) | Polyamine (P) | EP-100 | 0.80 | 200 | 300 | 400 | 500 | 600 | | | | |
| | | | EP-150 | 0.90 | 300 | 450 | 600 | 750 | 900 | | | 400~2000 | |
| | | | EP-200 | 1.05 | 400 | 600 | 800 | 1000 | 1200 | | | | |
| | | | EP-250 | 1.25 | 500 | 750 | 1000 | 1250 | 1500 | 2.0~8 | 0~4.5 | 500~2000 | ≤ 300 |
| | | | EP-300 | 1.35 | 600 | 900 | 1200 | 1500 | 1800 | | | | |
| | | | EP-350 | 1.50 | | 1050 | 1400 | 1750 | 2100 | | | | |
| | | | EP-400 | 1.80 | | | 1600 | 2000 | 2400 | | | 600~2000 | |
| EP-500 | 2.00 | | | 2000 | 2500 | 3000 | | | | | | | |

2.) Adhesion and elongation of the belt

| Belt Carcass | ADHESIVE STRENGTH | | | ELONGATION | |
|--------------|-------------------|-----------------------------------|----------------------|-------------------------|-------------------------|
| | Between Plies | Between rubber and carcass (N/mm) | | Longitudinal | Longitudinal elongation |
| | N/mm | Rubber thickness ≤ 1.5mm | Rubber thick > 1.5mm | elongation at break % ≥ | at reference load % ≤ |
| EP Canvas | ≥ 4.50 | ≥ 3.20 | ≥ 3.50 | 10 | 4.0 |

3. Cover properties of the belts

| Cover Grade | Tensile strength | Elongation | Abrasion | Change Rate of tensile strength |
|-------------|------------------|------------|----------|---------------------------------|
|-------------|------------------|------------|----------|---------------------------------|

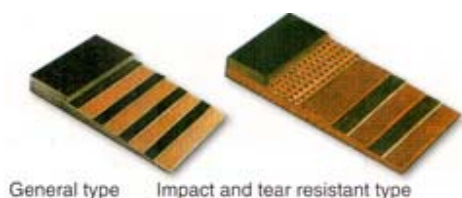
| | ≥ | ≥ | ≤ | and Elongation after aging |
|---|---------------------------|-----|-----------------|----------------------------|
| | Mpa(kgf/cm ²) | % | mm ³ | % |
| H | 24(240) | 450 | 120 | -25~+25 |
| D | 18(180) | 400 | 100 | -25~+25 |
| M | 15(150) | 350 | 200 | -25~+25 |
| L | 10(100) | 300 | 300 | -25~+25 |

Nylon Canvas (NN) Conveyor Belt

Application: Suitable for loose, relative big density type big, middle, and small mineral blocks, coal materials etc. convey, which has relatively big impact force and abrasion. Not suitable for hot and oily materials convey.

Features: Nylon is a good industrial fabric with excellent mechanical properties, good flexibility, high strength and fatigue resistance. Because of these properties, Nylon Canvas core conveyer belt has the following advantages:

- 1.High pulling strength. The pulling strength of nylon canvas core conveyer belt is 4times of cotton canvas belt.
- 2.Good impact resistance. Good impact energy absorption property due to its excellent elasticity.
- 3.Better water, acid, alkali resistance than cotton canvas belt.
- 4.Good groove forming property and flexibility, and good drum wheel suitability.
- 5.High bonding strength between laminates, avoid laminates separation.
- 6.Because less laminates than cotton canvas belt are needed, the unit length weight is decreased, the energy consumption is also decreased.
- 7.Long life span assures production continuity, as a result, production costs decreased.



| Fabric Spec. | | NN-100 | NN-150 | NN-200 | NN-250 | NN-300 | NN-400 |
|--------------------------------------|---|------------------------------|--------|--------|--------|--------|--------|
| Thickness(mm) | | 1.00 | 1.05 | 1.10 | 1.20 | 1.30 | 1.50 |
| Longitudinal Pulling Strength (KN/m) | 3 | 300 | 450 | 600 | 750 | 900 | 1200 |
| | 4 | 400 | 600 | 800 | 1000 | 1200 | 1600 |
| | 5 | 500 | 750 | 1000 | 1250 | 1500 | 2000 |
| | 6 | 600 | 900 | 1200 | 1500 | 1800 | 2400 |
| | 7 | 700 | 1050 | 1400 | 1750 | 2100 | 2800 |
| | 8 | 800 | 1200 | 1600 | 2000 | 2400 | 3200 |
| Bonding Force between layers (N/mm) | | ≥5.5 | | | | | |
| Elongation Rate (Reference) | | ≤2% | | | | | |
| Consumption of Covering Rubber | | ≤0.35cm ³ /1.61Km | | | | | |
| Max.Length of Belt Roll(m/Roll) | | 250m | 200m | | | | |

Common Cotton Canvas (CC) Conveyor Belt

Application: Suitable for conveying small blocks, powdery materials in metallurgical, construction materials, electric, chemical, port and harbor industry such as wood saw, rice, crops, coal, cement and mineral materials. Not suitable for hot and oily materials convey, the working temperature is around-10°C+40°C

Type: Terylene cotton canvas belt; Full cotton canvas belt

Features: The common cotton canvas belt has the advantage of good flexibility, easy groove forming, and cheap.



| Fabric Type | Full Cotton Cavas | Terylene Cotton Canvas |
|---|------------------------------|------------------------------|
| Fabric strength(N/mm/layer) | 55 | 65 |
| Thickness(mm) | 1.40 | 1.00 |
| Conveyer Belt Core Laminates | 3-10 | 3-10 |
| Adhesion strength Between Fabric Layers(N/mm) | ≥2.7 | ≥3.2 |
| Full Thickness Pulling Strength | 150-500 | 180-600 |
| Width | 200-1600 | 200-1600 |
| Longitudinal Elongation Rate(reference) | ≤3% | ≤3% |
| Consumption of Covering Rubber | ≤0.65cm ³ /1.61Km | ≤0.65cm ³ /1.61Km |
| Max.Length of Belt Roll(m/Roll) | 200 | 200 |

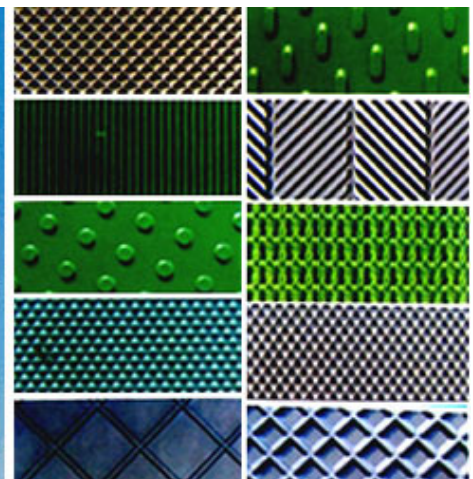
Patterned (Chevron) conveyor belt

Patterned conveyor belt is composed of belt carcass and pattern cover,Pattern shape and height(depth) may be different because of different conveying material and gradient of conveyor.

Shape and characteristics:

On surface of the belt,there is chevron pattern higher than the belt body,the pattern may be either open-end or closed,Each kind of pattern includes three types of high,medium and low.

Uses: It can convey powdered,granulated and small lump material at the gradient of no more than 40°.It can also convey packaged materials.



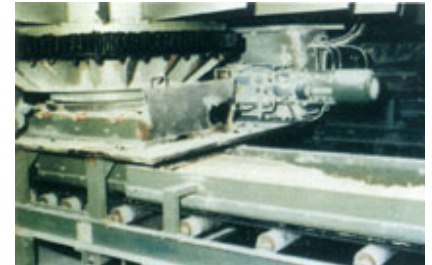
Chemicals Resistant Conveyor Belt

APPLICATIONS: Chemicals Resistant Conveyer Belt is used for acidic or alkali materials conveying in

chemical plant, pulp, cement, chemical fertilizer industry.

CHARACTERISTICS:

- 1.Prevent from acid or alkali corrosion to conveyer belt;
- 2.Good bonding property, no layers separation;
- 3.Cotton, polyester-cotton, nylon etc. materials are used for the belt core.



Major variety and oil resistance indicatrix:

| Type of Acid or Alkali | Concentration | Type of Acid or Alkali | Concentration |
|------------------------|-------------------|------------------------|-------------------|
| Hydrochloric Acid | 20% | Carbonic Acid | Any Concentration |
| Nitric Acid | 10% | Sulfurous Acid | Any Concentration |
| Sulfuric Acid | 20% | Acetic Acid | Any Concentration |
| Boric Acid | 40% | Severe Acid | Any Concentration |
| Phosphoric Acid | 40% | Caustic Potash | Any Concentration |
| Arsenic Acid | Any Concentration | | |

Oil Resistant Conveyor Belt

Applications: Common conveyer belt has bad durability to all kinds of oils. And organic solvent. When delivering materials including oil; because oil has swelling property, erodibility to band surface, The volume of surface, become large, structure relaxes, and physics mechanical performance dereases, Oil resistant conveyor belt has good oil resistance and organic solvent resistance. It is fit for carrying materials including oil and organic solvent.

Characteristics: Overlay glue is NBR which has good oil resistance According to consumer's ordering we choose strengthen material.

Main Technical Parameters:

| Variety | Apply temperature | Type of oil | Oil resistance indicatrix |
|---------|-------------------|------------------------------|------------------------------|
| Oil-1 | -30°C-70°C | Mineral oil, organic solvent | Liquid volume expansion ≤50% |
| Oil-2 | -30°C-70°C | Vegetable oil, grease | Liquid volume expansion ≤50% |

Heat Resistant Conveyor Belt

Application: If the temperature reaches more than 60°C, the common conveyer belt performance will be affected and the life span will be decreased rapidly. In such kind of application condition, the Heat Resistant Conveyor Belt is strongly recommended. This product is especially suitable for the particles, powders, and block materials convey such as sintering mineral, coke, cement in metallurgical, construction materials industry.

Type: Type1, Type2, Type3, Heat resistant

Type Features:

1. Good heat resistant, long life span;
2. Good bonding property, no layers separation caused by heating.
3. The heat resistant belt can be used in hot materials (Hot Materials with burning red color) conveying for long time. The life span of high temperature conveyor belt is much longer than normal heat resistant belt.



Main Technical Parameters:

| Spec. | Materials Temp | Bone material | Covering Rubber Consumption | Application |
|---------------------|----------------|----------------------|-----------------------------|---|
| Type1 | 50-100℃ | Common Cotton Canvas | ≤0.5cm ³ /1.61Km | Require heat Resistant, but the materials temperature is not so high; not suitable for rowders |
| Type1 | ≤125℃ | Common Cotton Canvas | ≤0.5cm ³ /1.61Km | Require abrasion resistant, the materials temperature is prorer, suitable for powders with not too high temperature |
| Type1 | ≤150℃ | Common Cotton Canvas | ≤0.5cm ³ /1.61Km | Suitable in high abrasion requirement with rather high temperature condition such as sintering produce, cement etc. |
| High Temp Resistant | 150-200℃ | Full Cotton Canvas | ≤0.6cm ³ /1.61Km | Suitable in high abrasion requirement with rather high temperature condition such as sintering product, cement etc. |

Flame Resistant Conveyor Belt

Application: In man difficult approaching working condition, or having potential fire occurring location, the normal conveyor belt is not able to eliminate the potential fire danger, in such cases, the special treated conveyor belt with fire resistant property may be used.

Features: This type belt are mainly used for preventing from fire accident or fire spreading in coal mine, electric power industries. Nylon canvas or Terylene-nylon crossing woven canvas are used for the belt with the advantage of high strength, good groove forming, good laminates bonding, good abrasion resistance and long life span.

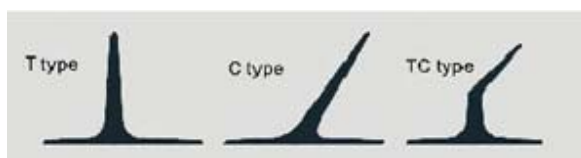
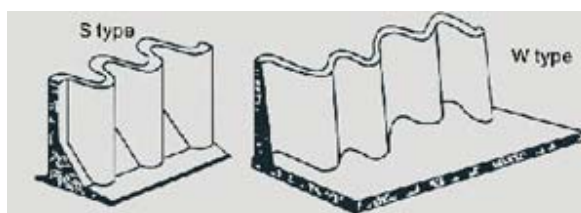
Major variety and oil resistance indicatrix:

| Item | Common Fire Resistant Belt |
|-------------------------------------|--|
| Longitudinal Pulling Strength(KN/m) | ≥800-3500 |
| Fire Resistant Property | NO more than 60 seconds of fire existing average time, no fire returning for full thickness coupon |

| | | |
|--|------|-------------|
| Covering Rubber Thickness(mm) | Up | 4.5-8.0 |
| | Down | 1.5-3.0 |
| Covering Rubber Consumption \leq cm ³ /1.61Km | | \leq 0.50 |
| Belt Width(mm) | | 600-2200 |
| Max.Length of Belt Roll(m/Roll) | | 200 |

Raised Edge Conveyor Belt

Raised Edge Conveyor Belt is often used in order to prevent scatterance of conveyed materials. The belt is composed of belt and raised edge.



Its structure and performance are as follows:

| Name | Shape of the raised edge | Purpose |
|--|---|---|
| Straight-strip raised edge conveyor belt | There is a straight-strip raised edge higher than belt on either side of the belt. The height of the raised edge is 10 - 30mm. | It can convey powder, granular, paste and liquid materials which scatter easily. |
| Wedge-type raised edge conveyor belt | There is non-connecting wedge-type raised edge higher than belt on either side of the belt. The height of raised edge is about 20 - 80mm. | It can convey powder, granular and small lump materials which scatter easily. |
| Wavy raised edge conveyor belt | There is continuous wavy raised edge higher than belt on either side of the belt. The height of the raised edge is about 60 - 200mm. | It can convey powder, granular small lump, paste and liquid materials which scatter easily. |

The width of raised edge conveyor belt which the corporation can provide is no more than 3100mm. According to the tensile strength of the raised edge conveyor belt, it includes such models as M, L and H.

The tensile strength of each model is as follows:

| Tensile Strength | Conventional-type (Model M) | Strength-type (Model L) | High-strength-type (Model H) |
|------------------|-----------------------------|-------------------------|------------------------------|
| N/layer (mm) | 54.9 | 196 | 294 |

| | | | |
|----------------|----|-----|-----|
| KGF/layer (cm) | 56 | 200 | 300 |
|----------------|----|-----|-----|

We can provide such products as conventional-type, heat-resistance type ($\leq 120^{\circ}\text{C}$), cold-resistance type ($\geq -40^{\circ}\text{C}$), acid and alkali resistance type, static electricity, conductive-type, high-temperature resistance type ($\leq 180^{\circ}\text{C}$) and hygiene-type, etc. According to performance in service. We can make trial production of the raised edge conveyor belt with other kind of raised edge or special performance and requirements.

Endless Conveyor Belt

Endless conveyor belt is conveyor belt that has been made into endless without joint in the process of production. Its feature is that there is no joint in belt carcass, and the belt will not be shortened in service life due to early failure in the joints of the belt. The belt is flat in surface and even in tension, thus it runs smoothly and its elongation in working is low.



Foodstuff Conveyor Belt

Characteristics:

The product selects cotton canvas or EP canvas as carcass. The belt body has good elasticity and is not easily transformed. Cover rubber of the belt is made of pure natural rubber and non-pollutive. The cover rubber is white or pale in color, non-pollutive, with no foreign smell and not influencing food hygiene. The product is reasonable in formula design, suitable in color, light and lasting in use, and conforming to all hygienic indexes.

Uses:

Suitable for conveying cereals in bulk or packed in tins, bales or cases in food industry or cereal industry.



Technical indexes:

| Items | | Unit | Indexes |
|-----------------------|----------------------------|--------------------------|------------|
| Cover rubber property | Tensile strength | MPa | ≥ 14 |
| | Elongation at break | % | ≥ 350 |
| | Abrasion | cm ³ / 1.61km | ≤ 0.8 |
| Adhesion | Between rubber and carcass | N / mm | ≥ 2.7 |
| | Between plies | | ≥ 2.7 |

Hygienic indexes:

| Items | | Unit | Indexes |
|--|---|--------|----------------------|
| Remains of vaporization | 4% Acetic acid soaking liquid | mg / L | ≤1000 |
| | Hexane soaking liquid | mg / L | ≤2000 |
| Potassium permanganate consumption, water soaking liquid | | mg / L | ≤70 |
| Zinc, 4% Acetic acid soaking liquid | | mg / L | ≤60 |
| Heavy metals (Pb), 4% Acetic acid soaking liquid | | mg / L | ≤1.0 |
| Fading test | Soaking liquid Colorless oil or edible oil | | Negative Negative |