YOU CAN RELY ON HIGH-PERFORMANCE LOGISTICS & SERVICES

With a main logistic platform in Lille (France), offices and storage facilities in Poland, USA and Australia we can provide our clients with:

• A wide range of stock belting specifications
• Cutting services to customise belt width and length
• Pre-drilling of elevator belts on request
• Buckets for elevator belts together with related fastening and installation equipment (eg: bolts, clips...)
• A “one stop shop” for conveyor belt related products such as splice kits, glues, mechanical fasteners, idlers, loading stations, belt cleaners, vulcanising presses...
• Short delivery periods
• Most importantly, high-quality technical service and support at all times.

DEPREUX is part of the COBRA GROUP.
For further information on the COBRA Group activities please contact your local COBRA office.

CONVEYOR OR ELEVATOR BELTS FOR THE TRANSPORT OF ABRASIVE MATERIALS OR WITH IMPACT LOADING IN AMBIENT ENVIRONMENT

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DEPREUX ABRASIVES VERSION 07-ANG
Conveyor or elevator belts for the transport of abrasive materials or with impact loading in ambient environment

DEPREUX offers 8 types of textile or steel conveyor belts for the transport of bulk or other materials. Each belt is made to fit as closely as possible with the conveyor system parameters, the nature of the material to be transported and the targeted belt life expectancy.

The choice of the type of belt cover is largely influenced by the physical and properties of the material to be transported: its granularity, its level of humidity, its abrasion capabilities. Here are some examples of different types of material:

- Highly abrasive materials: clinker, iron ore, pebble, metallurgical coke, metallurgical lignite, magnetite, quartz, lignite, superferric phosphate, glass powders.
- Moderately abrasive materials: anthracite, coal, ash, bauxite, potash, gravel, aluminium, concrete, sand.
- Heavy or sharp materials: To transport this type of material, you need a belt with a very sturdy structure. This is the case for example for iron, andesite, schist, rhyolite, conglomerates, and all types of rock with a granularity of higher than 100 mm after being broken down.

The main feature of DEPREUX is to be able to offer for different applications the best technical and economical solution, taking into account the targeted life expectancy, the risks of hazards, the maintenance practices, and the initial investment cost.

For the short center conveyor systems, DEPREUX offers alternative options to the standard DELTA plied belts to accommodate with the possible heavy impacts or risks of tearing of not carcase:
- add textile or steel breakers to the plied belt
- a straight-warp DX-FLEX construction
- a solid-woven DYNA construction with rubber covers or with PVC covers for very special applications
- a steel carcase construction: steel-cord DX/ST or a steel matrix DX-MAT

For the long distance conveyor systems, DEPREUX has a wide variety of solutions, depending on the system configuration:
- the standard DELTA plied belt or DELTA CFW
- the polyester straight-warp DX-FLEX belt or DX-FLEX RT
- the thin and light aramid straight-warp belt
- the solid-woven DYNA belt
- the steel-cord DX/ST belt

PRODUCT RANGE

Textile carcase belts

DELTA is a conventional ply belt, made up of textile layers bound together by a thin layer of rubber and two covers.

DELTA SELFTRACK is a DELTA with 1 additional stiffened ply this belt is used to ensure proper centering of the troughed belt to avoid possible tracking issues.

DX-FLEX is a textile belt with a carcase composed of polyester warp protected on both sides by a polyamide weft. DX-FLEX has excellent properties of resistance to tearing and resistance to heavy impacts.

DX-FLEXAMID is a DX-FLEX where the polyester warp is replaced by aramid.

DYNA is a solid-woven belt with rubber covers. Its main characteristics are high life expectancy and high resistance to impacts and potential incidents.

DYNA-P is a variation of a DYNA, using PVC covers instead of rubber. It is used in very special cases such as the transport of metallic parts.

Steel carcase belts

DX-ST is a belt composed of steel cables placed at a constant pitch across the width of the belt (on the drawing, DX-ST with a steel breaker in the top cover)

DX-MAT is a DX-FLEX where the polyester warp and the polyamide weft are replaced by steel cord.
DELTA or DELTA CFW - Plied belts with rubber covers

**Application**
- quarries,
- steel mills,
- power plants,
- paper and wood,
- cement industry,
- ports.

**Tensile strength**
250 N/mm² to 2000 N/mm² - using 2 to 5 plies.

**Width and Length**
Standard 1600 mm maximum. We can supply wider belts if required. Tolerance +/- 1%. Standard 200 m rolls. 400 m rolls are also possible, please contact us.

**Belt structure**
The DELTA or DELTA CFW belt textile carcass is made up of layers of fabrics, from 2 to 4 (or more) plies. Each of these is separated by a rubber layer. This <<sandwich>> structure enables the belt to absorb shocks. The upper and lower fabrics of the belt are then covered with a final rubber cover.

**Main mechanical properties:**
- **Belt stretch**
  - At 10% of belt nominal tensile strength: 1.5% max. Permanent stretch around 0.7% and elastic stretch around 0.5% for standard carcass.
- **Adhesion**
  - The fabrics are dipped with RFL solution. The RFL and rubber composition is designed to ensure maximum adhesion between the plies. This needs to be adhesive high enough to ensure a long life expectancy, but not so adhesive that it would hamper the operation of splicing the belt. Adhesion: > 4N/mm².

**Belt joining**
DELTA belts can be joined by any of the following methods:
- the «hot» vulcanization method, using DEPREUX or other joining materials and a field press,
- the «cold» method: using special glues,
- with mechanical fasteners. In this case, DEPREUX can supply the required belt with fasteners ready for use at each end.

Please note that a small increase in belt length is required to make the splice. Also, in the case of «hot» joining, the splicing materials used have an effective shelf life of less than 6 months and should not be stored at high temperatures.

The splicing procedure is described in detail in a separate document available on request.

**Description of product**
DELTA EP 400/3 - 1000 - 4 + 2 Y
DELTA+ : Plied rubber conveyor belt
EP : Warp polyester E - Wett polyamide P
400 : Tensile strength in N/mm²
3 : Number of plies
1000 : Width in mm
4 + 2 : Upper and lower covers thickness in mm
Y : Cover type

**Pulley diameter**
Recommendation for pulley diameters see table on page 15.

**DELTA selftrack - DELTA belt to avoid Tracking Misalignment**

**Application**
DELTA selftrack belts are used to ensure proper centering of the conveyed belt to avoid any tracking misalignment.
This special belt is designed on the basis of a plied classic DELTA plus 1 fold above the classics EP fabrics. This gives for example δ + 1 conventional EP plies + 1 stiffened ply; the stiffened ply is about 1/3 of the belt width and is located only in the middle of the belt.
DELTA selftrack can also be manufactured with great interplies DELTA + selftrack.

**Belt structure**
Cover characteristics: see table on page 14.
Thicknesses and weights for different specifications, please contact us.

**Description of product**
DELTA selftrack - 400/5+1 - 1200 – 6+2 – Y
DELTA : Plied rubber conveyor belt
SELFTRACK : 1 additional stiffened ply
400 : Tensile strength in N/mm²
5+1 : 1 EP plies + 1 stiffened ply
1200 : Belt width in mm
6+2 : Upper and lower covers thickness in mm
Y : Cover type

**Pulley diameter**
Recommendation for pulley diameters see table on page 15.

**BREAKER OPTION (textile breaker, steel breaker or aramid breaker)**

**Application**
All conveyor belts Delta and DX-ST can be equipped with the option (if the thickness of the cover is sufficient) of a fabric, steel or aramid breaker ply whose function is to protect the textile fabric of the carcass from tearing or impact. It can also add a breaker layer common for DX 4 EULX belts, or DX FL EXAMID DX or DYNA. The breaker ply may be inserted in the top cover (1 or 2 breakers) or in both covers if double protection is required. In addition it may be either included in the cover thickness or more of the cover.

**Steel Breaker**
The steel breaker ply has ample capacity to resist tearing. The ply is constructed of steel cables resistant to cutting and tied together by polyamide wires. The resistance of the cable and the spacing of the cables vary according to the resistance required. The steel cables are orientated in the web direction of the belt. The steel breaker is denominated for its ultimate tensile strength at the break, in N/mm²; in the direction of the steel cables, which relates to the transverse direction of the belt. We offer the breaker plies in grades 125, 160, 200, 250, 315, 400, 500. 125 is stated to be the resistance to break in cable direction (it relates to the direction of web of the belt) as well as 125 N/mm². Technical parameters in table on page 11.

**Fabric Breaker**
In standard we use
- Protect from impact: EP250 and EP160

**Aramid Breaker**
The aramid breaker is composed of polyester in the warp, and aramid in the weft; with the aramid having by construction an elongation at break over 6% to cater with the required transverse flexibility.

**Description of product**
DELTA EP 400/3 - 1400 - 6+4 - BRK2+0 S125 - B
DELTA : Plied rubber conveyor belt
EP : Warp polyester E - Wett polyamide P
400 : Tensile strength in N/mm²
3 : Number of plies
1400 : Width in mm
6+4 : Upper and lower covers thickness in mm
BRK2+0 : 2 breakers in the top cover
S : Steel breaker (F for fabric breaker D for aramid breaker)
125 : Breaker Tensile strength in N/mm²
: Breaker included in cover thickness (+ for breaker thickness in addition to the cover thickness)

Y : Cover type
**DX-FLEX - Textile straight-warp conveyor belt**

**Application**
The DX-FLEX belt has excellent properties of resistance to tearing and resistance to heavy impacts. Because the carcass is thin, DX FLEX can also be used with smaller pulley diameters than textile plied or steel-cord belts. Ability of DX-FLEX to trough is much better than a plied conveyor belt. DX-FLEX can also be joined with mechanical fasteners. DX-FLEX is therefore utilized on heavy duty conveyors where resistance to the effects of heavy impacts and resistance to tearing are important characteristics, typically seen in quarrying, open cast mining and steel industries... or in applications where heavy-duty and yet narrow belts are required, such as in tunneling.

**Construction**
DX-FLEX is a textile belt «straight- warp » which means with a carcass composed of one or two plies, each ply is with straight warp, protected on both top and bottom sides by weft lines in textile as shown in the drawing below cons. The straight warp is composed of thick twisted (textile cables) in polyester. This warp is inserted between two planes of weft textile made of thick twisted in polyamide. The warp and the weft are connected by a small fine wire which ensures the maintenance of textile. The carcass frame thus constructed is adhered RFL and may be coated of different types of rubber cover, anti-abrasive (X, Y, SH, etc...) and other.

- For a given ply, for average tensile strength greater than 800 N/mm, it is necessary to have two levels of warp, and therefore three levels of weft protecting the warp and the binding of the assembly.
- For high resistance, it is preferable to use 2 plies straight-warp, separated by an interply in rubber to facilitate splicing.
- To increase fastening resistance, tear and impact, the DX-FLEX belt can be offered in a version with carcass reinforced in weft: DX-FLEX RT

**Tensile strength**
400 N/mm in 1 ply to 2500 N/mm in 2 plies

**Belt joining**
DX-FLEX or DX-FLEX RT converor belts are normally jointed by hot vulcanising (ref. to DEPREUX splicing procedure). It is also possible to mechanically fasten DX-FLEX belts but you should consult with our technical representative for the appropriate type of fastener.

**Belt structure**
Cover characteristics: see table on page 14. Thicknesses and weights for different specifications, please contact us.

**Description of product**
DX-FLEX - 1600 / 2 - 1200 6 + 3 - X
DX-FLEX : Conveyor Belt with straight-warp
1600 : Tensile strength at break of the belt in N/mm; 1600 N/mm
2 : 2 plies of straight-warp fabric, each made of an 800 N/mm tensile strength fabric
1200 : Conveyor belt width in mm
6+3 : Top and bottom cover thickness in mm
X : Cover type

**Pulley diameter**
Recommendation for pulley diameters see table on page 15. DX-FLEX belt can operate with pulley diameters smaller than DELTA belt.

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**DX-FLEXAMID - Aramid straight-warp conveyor belt**

**Application**
The main feature of this belt is that it is the lightest and the thinnest between all textile and steel options : thanks to the properties of the aramid yarn which has 3 times more strength (or tenacity) than a polyester yarn for the same weight, and roughly three time less elongation. Compared to steel construction, it is naturally much lighter, and its elongation is in the same order of magnitude as steel. The aramid yarn is used in the warp and generally polyamide yarn are used in the weft.

**Construction**
DX-FLEXAMID belt is composed of a «straight-warp» carcass, formed with a layer of aramid straight chain fibre yarn, with two layers in the weft direction, upper and lower polyamide textile fibre yarn. The yarn of the warp and weft are connected with a bonding polyamide yarn to ensure a strong construction.

**Tensile strength**
Up to 4000 N/mm in 1 single ply

**Belt structure**
Cover characteristics: see table on page 14. Thicknesses and weights for different specifications, please contact us.

**Description of product**
DX-FLEXAMID - 1600/1 - 1400 – 6+3 – X
DX-FLEXAMID : Conveyor Belt with aramid straight-warp
1600 : Tensile strength at break of the belt in N/mm; 1600 N/mm
1 : 1 ply of straight-warp aramid
1400 : Conveyor belt width in mm
6+3 : Top and bottom cover thickness in mm
X : Cover type

**Pulley diameter**
Recommendation for pulley diameters see table on page 15.
DYNA - Solid-woven belts with rubber covers

**Application**

1) DYNA belts are used when a long service life is sought and/or which are characterised by severe operating conditions such as in short centre or high speed systems, the presence of large rocks, a risk of impact damage, or longitudinal tearing or edge wear.

2) DYNA belts are also used for long center distances or when the system is on a steep slope. In these circumstances a DYNA belt works better than conventional ply or steel cord belts, because of its high mechanical and corrosion resistance, its generally lower power requirement, plus the fact that it is easy to install and maintain, mainly because of its high fastener holding.

3) And finally, DYNA belts are used for bucket elevators, because of the high hold bending strength of their structure.

**Tensile strength**

<table>
<thead>
<tr>
<th>Width</th>
<th>Tensile strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>315 N/mm</td>
<td>315 N/mm</td>
</tr>
</tbody>
</table>

**Width, Length**

Standard: up to 1600 mm maximum. Larger widths can be supplied. Tolerance +/- 1 %.

Standard length: 200 m. Can supply belts of up to 400 m long. Tolerance -0, +2 %.

**Belt structure**

The DYNA belts are made of a textile «solid-woven» carcase, impregnated with a special PVC.

The carcase is then protected with special anti-abrasion rubber covers.

**Main mechanical properties:**

- **Belt stretch**

  - The «solid-woven» carcase is coated with cotton pole yarns laid in the warp direction, and special edge reinforcements which make the belt exceptionally resistant:
    - to impacts by sharp or large materials,
    - to longitudinal tearing,
    - to impacts by sharp or large materials,
    - to longitudinal tearing,
    - to impacts by sharp or large materials,
    - to longitudinal tearing.

- **Fasteners**

  - Excellent fastener holding capacity - from 50% to 90% - which makes this joining technique increasingly popular.

- **Mechanical resistance**

  - At 10% of nominal belt tensile strength: 0% to 0.7% for standard carcase.

- **Elastic stretch:**

  - At 10% of nominal belt tensile strength: 0% to 0.7% for standard carcase.

- **Permanent stretch:**

  - At 10% of nominal belt tensile strength: 1% maximum.

**Advantages for the overall system**

A major advantage over ply belts is that DYNA belts need smaller drum diameters. The advantage over steel cord belts is that DYNA belts usually need less power to function.

**Operating temperature range**

- **Humidity**

  - Temperature from: -25°C to 70°C

  - The belt is impervious to humidity and moisture.

**Belt joining**

DYNA belts can be joined by any of the following methods:

- **The hot vulcanized Finger splicing method, using DEPREUX or other jointing materials and a field press.** - The cold Finger splicing method, using special glues,

  - with mechanical fasteners. In this case, DEPREUX or other jointing materials are much the same. The splicing procedure is described in detail in a separate document available on request.

**Description of product**

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>DYNA EP 630/1 - 1000 - 4 + 2</td>
<td>SH : Cover compound</td>
</tr>
</tbody>
</table>

**Pulley diameter**

Recommendation for pulley diameters see table on page 15.

DYNA-P - Solid-woven belts with PVC covers

**Application**

DYNA-P belts are used for the transport of sharp and greasy materials because the PVC cover has a high resistance to cutting and to oil and grease. For example, the transport of metallic by-products.

**Tensile strength**

Usually 400 - 500 - 630 N/mm.

**Width**

Up to 1600 mm maximum.

**Belt construction**

The DYNA-P belt is made of a «solid-woven» textile carcase impregnated with PVC and protected by PVC covers.

**Main mechanical properties**

The structure of the DYNA-P is very similar to that of the DYNA belt, especially with regards to the carcase. As a result, the mechanical properties are identical.

**Belt joining**

The DYNA-P structure is very similar to that of the DYNA belt, therefore in principle the joining method and fastening methods are much the same. The splicing procedure is described in detail in a separate document available on request.

**Description of product**

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>DYNA-P EP 630/1 - 1000 - 4 + 2</td>
<td>SH : Cover compound</td>
</tr>
</tbody>
</table>

**Pulley diameter**

Recommendation for pulley diameters see table on page 15.
Steel breaker ply

**Tensile strength**

From 500N/mm² to 6400N/mm²

**Product description**

A DX/steel-cord conveyor belt is composed of:
- Steel Cables placed at a constant pitch across the width of the belt.
- A special rubber-bonding layer to the cables and to the rubber covers.
- Top and bottom rubber covers.

The manufacture of a steel cord belt requires a heavy-duty steel cord production line together with an experienced, knowledgeable production team. DEPREUX Steel Cord belts (DX/ST) are the result of 80 years experience.

**Steel cable construction**

DEPREUX utilises the open type steel cord construction that allows the rubber to penetrate fully into the cable, which is a guarantor of the longevity for the belt. This technique optimises the adhesion and minimises corrosion to the steel cords in the case of damage to the belt.

Open steel cables also offer characteristics that enhance the impact absorption capability of the belt and makes for easy transition between the troughed position of the belt to flat and vice versa.

The steel cables are also protected against corrosion with special zinc plating.

**Different bonding layer and cover combinations**

The bonding layer is a key part of steel-cord belt. It has to be formulated to have:
- Good penetration in the cable
- Good adhesion with the cables
- Good adhesion with the cables, even after ageing
- Good adhesion with the cables even after the dynamic stresses of the conveyor operation

**Rip protection and the use of breaker plies**

A risk for steel-cord belts is the possibility of penetration between the cords by a sharp foreign object and “ripping” along the length of the belt. Two possibilities are available to protect the steel cord belt against such an occurrence.

1. Add a textile breaker ply in the cover of the belt. The P Type textile breaker is composed of high elongation strong yarns that are positioned in the direction of the welt as indicated in the picture.

2. Add a steel breaker ply in the cover of the belt. The HE steel breaker ply is composed of a high tensile strength steel wire (7 times normal elongation) positioned in the direction of the welt.

Consideration of the breaker ply design in relation to the overall performance of the conveyor belt should be made because the higher the tensile strength of the breaker ply the greater the adverse effect on the troughing characteristics of the conveyor belt.

### Technical parameters

<table>
<thead>
<tr>
<th>Tensile Strength (N/mm²)</th>
<th>HE 125</th>
<th>HE 250</th>
<th>HE 315</th>
<th>HE 400</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (kg/mm²)</td>
<td>0.7</td>
<td>1.20</td>
<td>1.45</td>
<td>2.50</td>
</tr>
<tr>
<td>Diameter of Cable (mm)</td>
<td>1.35</td>
<td>1.52</td>
<td>1.52</td>
<td>2.40</td>
</tr>
<tr>
<td>Pitch (mm)</td>
<td>8.9</td>
<td>6.4</td>
<td>5.1</td>
<td>7.1</td>
</tr>
<tr>
<td>Density (kN/m)</td>
<td>112</td>
<td>156</td>
<td>196</td>
<td>141</td>
</tr>
</tbody>
</table>

### Belt joining

The DX/Steel Cord belt has to be spliced in compliance with the DEPREUX Splicing procedure (available on request).

### Pulley diameter

Recommendation for pulley diameters see table on page 15.
**DX-MAT (IW) - Steel straight-warp belt**

**Application**
DX-MAT IW is appreciated for the superior qualities it offers for resistance to tear, resistance to perforation in applications with strong impacts and the effect of high temperature from burning materials.

DX-MAT is utilised in special applications found in hard rock quarries, iron and steel industries and foundries. DX-MAT is utilised for elevator belt applications requiring very high tensile strengths and yet minimal belt elongation, this belt will be presented in a separate brochure.

**Construction**
DX-MAT IW is a steel mesh conveyor belt made with steel-cords in the warp direction and protected by steel cords laid in the weft direction.

DX-MAT IW generally uses the Fleximat ® IW carcase. In the DX-MAT IW carcase, the warp steel cables (type E) provide for both a limited elongation and a resistance to the compressive effects of impacts on the belt.

Compared to conventional steel cord belts, the weft of DX-MAT IW is composed of high elongation thin steel wires (type HE) to offer superior impact resistance. DX-MAT IW offers superior impact and tear resistance.

**Vulcanizing and mechanical fastening**
DX-MAT IW conveyor belts are normally joined by hot vulcanising (ref to DEPREUX splicing procedure).

It is also possible to mechanically fasten DX-MAT IW belts but you should consult with our technical representative for the appropriate type of fastener.

**Belt structure**

**Description of product**
DX-MAT iw 800 - 1000 - 6 + 3 - X

DX-MAT iw: Conveyor belt with straight steel (E) warp and steel weft (HE)

800 : Tensile Resistance of the belt in N/mm

1000 : Conveyor belt width in mm

6+3 : Cover thickness in mm

X : Cover type

**Pulley diameter**
Recommendation for pulley diameters see table on page 15.

---

**Comparison of different constructions for anti abrasive belts in type 1600 N/mm and effective cover of 6+2**

<table>
<thead>
<tr>
<th>TYPE</th>
<th>Products</th>
<th>Multi-ply</th>
<th>DX-IW/</th>
<th>Straight-Warp</th>
<th>DX-IW/XAMID</th>
<th>Solid-Rein.</th>
<th>Steel cord</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>DEPIA</td>
<td>1600/2</td>
<td>1600/1</td>
<td>1600/1</td>
<td>DYNAX</td>
<td>1600/1</td>
</tr>
</tbody>
</table>

**DIMENSIONS AND CONSTRUCTION**

<table>
<thead>
<tr>
<th>Wired Mesh</th>
<th>Polyamide</th>
<th>Polyester</th>
<th>Aramide</th>
<th>Polyamide</th>
<th>Polyamide</th>
<th>Polyester</th>
<th>Steel Cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Interlayers</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Thickness of the Covers</td>
<td>6+2</td>
<td>6+2</td>
<td>6+2</td>
<td>6+2</td>
<td>6+2</td>
<td>6+2</td>
<td></td>
</tr>
<tr>
<td>Total thickness of the Carcase</td>
<td>8.5</td>
<td>5.5</td>
<td>8.4</td>
<td>3.2</td>
<td>8.5</td>
<td>5.5</td>
<td></td>
</tr>
<tr>
<td>Belt total Thickness</td>
<td>17.5</td>
<td>13.5</td>
<td>18.4</td>
<td>11.2</td>
<td>18.5</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>Weight (average) (kg/m²)</td>
<td>20</td>
<td>30</td>
<td>20</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**MECHANICAL PROPERTIES**

**Warp Resistance**
1600

**Longitudinal elongation at break**
14

**Range of operating temperatures**
-25°C to +80°C

**RESISTANCE TO POSSIBLE INCIDENTS**

| Puncture from impact | ++ | ++ | ++ | ++ | ++ |
| Longitudinal tearing | ++ | ++ | ++ | ++ | ++ |
| Edge wear | ++ | ++ | ++ | ++ | ++ |
| Fastener tension (mechanical joining) | ++ | ++ | ++ | ++ | ++ |
| Edge wear performance | ++ | ++ | ++ | ++ |

**FLEXIBILITY**

**Transverse flexibility, Troughability**

**Longitudinal flexibility (on drum)**

**Elongation**

| Typical Elastic Elongation (%) | 0.7 | 0.3 | 0.5 |
| Permanent elongation | 0.3 | 0.3 | 0.3 |
| Elongation on long conveyor (1000m center to center) (m) | 2.5 | 2.5 |

**OTHERS PROPERTIES**

| Safety factor | > 10 |
| Splicing method | Cold or hot splice by step method |
| Splice length (m) | 800 (hot) and 1100 (cold) |
| Minimum diameter head drum (m) | 1250 |

(*) A technical note is available for more information (contact our sales department)
**Special cover**

The IS cover is a rubber cover that combines both excellent cold resistance and excellent anti sticking.
- Recommended when the environment is very cold to a temperature of -45 °C.
- Use for the transport of sticky materials such as clay, mud, wet cement, compost ...
  when a belt cleaner is not sufficient.
- Excellent resistance to abrasion, <50mm³.
- Can be combined with all types of our carcase ranges: DELTA, DYNA, DX-FLEX, DX/ST…

**Hot splicing products**

DEPREUX can supply the following splicing material. Please read carefully DEPREUX splicing procedure for the product you need to splice, or consult us before ordering the splicing material.

1) Splicing material in bulk, which is the most competitive option:
   - Dissolution, packaging by 1, 5, 10 or 25 litres
   - Skim, packaging by 25 ml roll, width 500 mm and thickness of 0.5 mm
   - Cover, conditioning by 25 ml roll, width 500 mm and thickness 1, 2, 3 or 4 mm
   - Sisirn fabric dipped with RFL (SBR latex) or RFL/BR latexes in 10 cm roll length, and 1500 mm width (to be cut to 45 °) to be used for splicing DX-FLEX or DYNA or DYNA-P belts PVC paste in tube of 5 litres for DYNA and DYNA-P belts

2) Splicing material in individual kits:
   - for DELTA, DELTA selftrack and DX-MAT belts, they consist of: dissolution + skin + cover
   - for DX-flex and DX-flexamid belts, they consist of: dissolution + skim + skin fabric
   - for DYNA and DYNA-P belts, they consist of: PVC paste + skin fabric + cover
   - for DX/ST belts, they consist of: dissolution + nodules + skin + cover

3) Kits simplified:
   - Dissolution + Skin

---

### PVC cover

<table>
<thead>
<tr>
<th>Designation</th>
<th>Breaking strength (Mpa)</th>
<th>Breaking elongation (%)</th>
<th>Abrasion (mm³)</th>
<th>Temperature</th>
<th>Composition</th>
</tr>
</thead>
<tbody>
<tr>
<td>PVC</td>
<td>&gt;15</td>
<td>&gt;350</td>
<td>&lt;140</td>
<td>+6°C to +50°C</td>
<td>PVC</td>
</tr>
</tbody>
</table>

### Tensile Strength and Temperature Table

<table>
<thead>
<tr>
<th>Designation</th>
<th>Tensile Strength N/mm</th>
<th>Number of plies</th>
</tr>
</thead>
<tbody>
<tr>
<td>DELTA, DELTA CFW or DELTA SELFTRACK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DX FLEX or DX-FLEX RT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DX-FLEXAMID</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PVC-PVC-DYNA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STEEL CORD</td>
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</tr>
</tbody>
</table>

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### Special cover characteristics

**COVER CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Designation</th>
<th>Also complies with</th>
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</thead>
<tbody>
<tr>
<td>DIN 22102</td>
<td>EN 2002</td>
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<td>DIN 22103</td>
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<td>DIN 22104</td>
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<td>DIN 22105</td>
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<td>DIN 22106</td>
<td>EN 2006</td>
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<td>DIN 22107</td>
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<td>DIN 22108</td>
<td>EN 2008</td>
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<td>DIN 22109</td>
<td>EN 2009</td>
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<td>DIN 22110</td>
<td>EN 2010</td>
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<td>DIN 22111</td>
<td>EN 2011</td>
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<tr>
<td>DIN 22112</td>
<td>EN 2012</td>
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</tr>
<tr>
<td>Temperature</td>
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<td></td>
</tr>
<tr>
<td>Composition</td>
<td>PVC</td>
<td></td>
</tr>
</tbody>
</table>