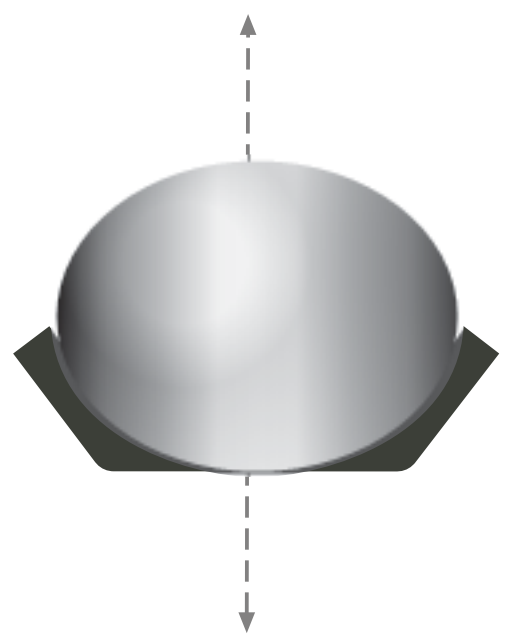
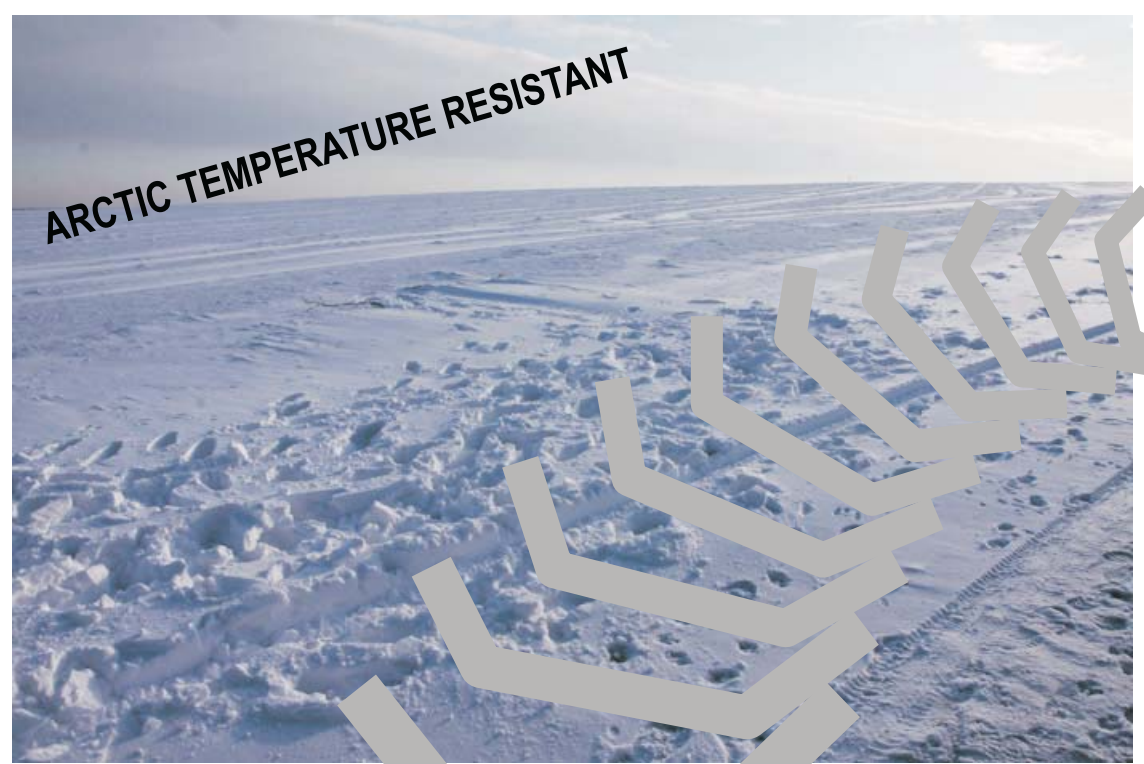


**Belts for the transport
of sticky material**



- multiply-DELTA-STICK
- straight-warp-DX FLEX-STICK
- steel-cord-DX/ST-STICK



ARCTIC TEMPERATURE RESISTANT



DELTA-STICK DX FLEX-STICK DX/ST-STICK

- Belts for the transport of sticky material

Application	The belt is designed for conveying sticky material such as, clay, mud, wet cement, muddy ore, compost... The belt transporting these types of material is very difficult to clean which causes material build-up on various locations of the conveyor causing operational problems, tracking issues, dirt and material carry-over on the return strand and underneath the conveyors.
Temperature range	-50°C to +80°C With certain precautions, this belt is suitable for applications in an arctic environment. Please consult our specialists for technical advice.
Belt construction	<p>The belt is composed of:</p> <ol style="list-style-type: none">1) a <u>carcass</u> either made of several plies of EP fabric (DELTA-STICK) or one or two plies of straight-warp fabric (DX FLEX-STICK) or a steel-cord construction (DX/ST-STICK).2) a <u>special top cover</u>: The special top rubber cover is based on synthetic elastomers, mainly polybutadiene. The non stick phenomena induced the basic molecular water-repellent structure and the non-absorbing impact energy of the rubber which makes the fine material "dance" on the belt as it passes along the idler structures, gives the DEPREUX STICK belts exceptional non stick properties, especially when the material transported is wet. The vitreous transition temperature of this special rubber is very low, this ensures good mechanical properties at low temperatures, and the belt can be used in an arctic environment. The compact structure of the cover ensures high abrasion resistance: <50mm³.3) a <u>bottom cover</u> The belt can be supplied with any type of bottom cover quality (B, X, Y, SH) - refer to our brochure on abrasion resistant belts. <p>In the case of an arctic environment, the bottom cover has to have the same rubber as the special top cover.</p>

Special top cover properties	Polybutadiene based	
	Does not absorb impact energy Water repellent High abrasion resistance Hardness Density	<50mm ³ 63 (+/- 5) Shore A 1.13

DELTA-STICK DX FLEX-STICK DX/ST-STICK

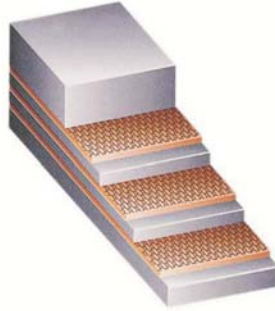
- Belts for the transport of sticky material

DELTA-STICK: several layers of EP fabrics

The DELTA 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.

The fabric consist of polyester (E) yarn in the warp direction to minimize the stretch of the belt and polyamide (P) yarn in the weft direction for good belt flexibility.

DELTA-STICK



DX FLEX-STICK: one or two plies of straight-warp fabric

This belt is a textile belt with a carcass composed of one or two plies of straight-warp fabrics.

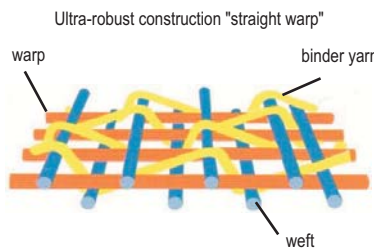
- The warp is formed from strong twisted yarns (normally polyester) that are laid horizontally (shown in orange).
- The weft (normally polyamide) is also laid horizontally (shown in blue) on the top and bottom of the straight-warp.
- The warp and the weft are bound together with a thin binder yarn (shown in yellow).

Depending on the tensile strength of each fabric, one can have one (or two) level of straight-warp yarns in the fabric and have two (or three) levels of weft.

As an example, in the case of a single ply belt with a tensile strength at break above 1000 N/mm, it is necessary to have two levels of straight warp yarns and consequently three levels of weft assuring the protection of the straight warp and the assembly of the carcass.

This carcass has several interesting features. It has a very strong resistance to impact and tearing. It can be used with mechanical fasteners. It is able to run with smaller pulleys than multiply belts or steel-cord belts. It has a lower elongation than multiply belts.

DX FLEX-STICK carcass especially recommended for ARTIC ENVIRONMENT



DX/ST-STICK: steel-cord cables

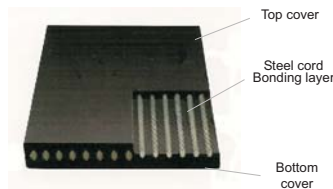
This conveyor belt is composed of:

- 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.
- the special top rubber cover and the standard or special bottom rubber covers

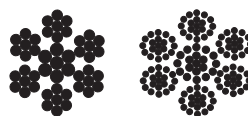
The manufacture of a steel cord belt requires a heavy-duty steel cord production line and an experienced, knowledgeable product team. Depreux Steel Cord belts (DX/ST) are the result of 80 years experience.

Depreux utilizes the open type steel cord construction that allows the rubber to penetrate fully into the cable, which is a guarantee of the longevity for the belt. This technique optimizes the adhesion and minimizes 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 an easy transition between the troughed position of the belt to flat and vice versa. The steel cables are protected against corrosion with special zinc plating.

DX/ST-STICK



Steel cable construction



Construction of the carcass



YOU CAN RELY ON HIGH-PERFORMANCE LOGISTICS & SERVICES

With a main logistics platform in Lille (France), offices and storage facilities in Poland, U.S.A and Australia we can provide our clients with:

- A wide range of stock belting specifications
- Cutting services to customised belts width and length
- Pre-drilling of elevators 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 a high quality technical service and support at all times.

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