

ABRASION RESISTANT CONVEYOR AND ELEVATOR BELTS





Our anti-abrasive Depreux belts combine a multi-ply carcass with a cover that has high abrasion resistance.

The choice of the belt's type is largely influenced by the physical properties of the transported materials: the granularity, humidity level, and its abrasive properties.

Some examples:

- **Highly abrasive materials:** clinker, ore, pyrite, coke, lignite, super-phosphate, magnetite, quartz, glass powder.
Recommended cover: DIN W
- **Medium abrasive materials:** anthracite, coal, ash, bauxite, potash, gravel, aluminium, concrete, sand.
Recommended cover: DIN Y
- **Heavy or sharp materials:** iron, andesite, schist, ryolythe, comblanchien, and all types of rocks with a granularity higher than 4 inches (100mm) after being broken down.
Recommended cover: DIN X

Belt construction

Conveyor and elevator belts are composed of:

- **fabric or steel carcass.**
- **two rubber covers:** a top cover ensuring contact with the transported material and the bottom cover ensuring contact with the conveyor drums.



MULTI-PLY

DELTA



**POLYESTER
STRAIGHT-WARP**

DX FLEX



**ARAMID
STRAIGHT-WARP**

DX FLEXAMID



SOLID WOVEN

DYNA



STEEL CORD

DX-ST



**STEEL
STRAIGHT-WARP**

DX-MAT

Technical characteristics of abrasion resistant covers:

| Designation | Suitable for | | | | | | | Uses | Abrasive index (mm ³) | Break resistance (Mpa) | Elongation at break (%) | Temperature range | Composition |
|----------------------|--------------|-----------|---------|-------------------|---------------|------------------------------|-------------------------------|--|-----------------------------------|------------------------|-------------------------|----------------------------------|-------------|
| | DIN 22102 | ISO 14890 | US-MSHA | AUSTRALIA AS 1332 | ENGLISH SB490 | CHINESE GB / T7984 Multiples | CHINESE GB / T9770 Steel Cord | | | | | | |
| B | | | RMA2 | | | | L | Moderately abrasive materials with a low granularity such as: sand, earth and coal, in normal conditions | <150 | >14 | >400 | -25°C to +80°C -13°F to 176°F | SBR/BR |
| X | X | H | | AS M | M24 | | H | Sharp materials and blocks | <120 | >25 | >450 | -25°C to +80°C -13°F to 176°F | NR/BR |
| Y | Y | | RMA1 | AS N | N17 | | L | Abrasive materials of medium granularity | <150 | >20 | >400 | -25°C to +80°C -13°F to 176°F | NR/SBR/BR |
| W | W | D | | | | | D | Highly abrasive materials | <90 | >18 | >400 | -25°C to +80°C -13°F to 176°F | NR/SBR/BR |
| SH | | | | AS A | | | | Highly abrasive materials | <70 | >20 | >450 | -25°C to +80°C -13°F to 176°F | NR/SBR |
| IS | | | | | | | | Abrasive materials, thin and sticky, use at very low temperatures. | <50 | >14 | >350 | -45°C to +80°C -49°F to 176°F | NR/BR/SBR |
| PVC (Solid-woven) | | | | | | | | | <140 | >15 | >350 | 0°C to +50°C 32°F to 122°F | PVC |