# Trioflex

FENNER DUNLOP
CONVEYOR BELTING

*Superior Load Support* / *High Resistance Impact, Ripping Tearing* / *Excellent Splice Performance*

## High impact / Heavy duty belts

Trioflex has been designed in line with the modern MPC-trend (minimum ply concept) and can be used very successfully for medium up to the heaviest service conditions, adverse loading conditions and coarse materials. As its name implies, the Trioflex carcass consists of three extremely tough and resilient EP fabric plies that are impervious to moisture and have a low elongation. There is an extra tough rubber layer between the plies. This all adds up to outstanding levels of impact and tear resistance.

- Tensile strengths available from 400 N/mm up to 1250 N/mm
- Wide range of widths available, from 400 mm up to 2200 mm
- High quality cover compounds suitable for -60°C up to +400°C, fire resistant, oil, grease and abrasion resistant
- Higher impact and tear resistance due to thicker rubber layers between the fabric plies
- Higher splice performance than conventional multi-ply belting
- Higher effective load support than conventional multi-ply belting

## Application areas

Trioflex belts provide superb reliability and durability in a wide cross-section of industries, including the steel industry, blast furnaces, mining and coke industry, ore transport, stone industry and processing industries.

## Availability

Trioflex belts are available from stock in 500 N/mm tensile strength using the Fenner Dunlop RS (high wear and cut resistance) cover quality. Other tensile strengths and cover grade options can be made to order. Available in widths from 400mm up to 2200mm.

## Ozone & UV resistance

Our Trioflex belts are fully resistant to ozone and ultraviolet light, as verified by EN/ISO 1431 testing. At ground level, ozone acts as a pollutant, increasing the acidity of carbon black surfaces and triggering molecular reactions within the rubber. This leads to surface cracking, which allows moisture and particles to penetrate, and a reduction in tensile strength. Ultraviolet light from sunlight and fluorescent lighting accelerates rubber deterioration by causing photochemical reactions that oxidize the surface, reducing mechanical strength and increasing susceptibility to tearing and ripping. The superior ozone and UV resistance of genuine Fenner Dunlop “Made in Holland” products ensures they last significantly longer.


## Custom-made to handle specific tasks

At Fenner Dunlop we produce our own rubber and manufacture all of our products using our own production facilities in the Netherlands. This self-sufficiency enables us to have total control of the quality process as well as the flexibility to create custom-made solutions when they are needed.

REACH COMPLIANT

MADE IN EU THE NETHERLANDS

Learn more about Fenner Dunlop Trioflex

Amended version. May 2025

**Fenner Dunlop Trioflex**

*The ideal belt for heavy loads, coarse materials and adverse loading conditions*

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## COVER GRADES PROPERTIES

| Fenner Dunlop Cover Quality | DIN quality | EN/ISO quality | Permissible temp. °C[1] min. | | | Base polymer | Technical Features |
|---|---|---|---|---|---|---|---|
| | | | Min. Ambient | Cont. Material | Peak Material | | |
| **Abrasion resistant** | | | | | | | |
| **RA** | Y | | -30 | 80 | 100 | SBR | Abrasion resistant for more severe service conditions. |
| **RE** | X | H | -40 | 80 | 90 | NR | Excellent resistance to cuts, impact, abrasion and gouging resulting from large and heavy lump sizes |
| **RS** | W | D | -30 | 80 | 90 | NR/SBR | Impact and extra wear resistance for conveying highly abrasive materials of mixed lump sizes. |
| **Heat resistant** | | | | | | | |
| **Betahete** | T | T1 | -20 | 160 | 180 | SBR | Heat and wear resistant for high temperature materials. |
| **Deltahete** | T | T3 | -20 | 200 | 400 | EPM | Superior heat resistant for heavy duty service conditions, up to 400 °C for short time intervals |
| **Oil resistant** | | | | | | | |
| **ROM** | G | | -20 | 80 | 90 | SBR/NBR | Oil and fat resistant for most products with animal and vegetable oils and fats.[2] |
| **ROS** | G | | -20 | 80 | 120 | NBR | Oil and fat resistant for products containing mineral oils. |
| **Fire resistant** | | | | | | | |
| **BV** | K/S[3] | 2A/2B | -20 | 80 | 90 | SBR | Fire resistant for the transport of inflammable and explosive materials according to EN12882 and ISO 340. |
| **Fire resistant and oil resistant** | | | | | | | |
| **BV ROM** | K/S[3] | 2A/2B | -20 | 80 | 90 | SBR/NBR | Combines features of ROM and fire resistance according to EN 12882 and EN ISO 340. |
| **BV ROS** | K/S[3] | 2A/2B | -20 | 80 | 90 | NBR | Combines features of ROS and fire resistance according to EN 12882 and EN ISO 340. |

[1] For elevator belts other values apply. For low ambient temperatures please ask for information regarding our Coldstar range.

[2] In some cases (with products containing high concentrations of animal and vegetable oils) ROS should be selected.

[3] K = fire resistant with covers.
S = fire-resistant with and without covers.
Other cover grade qualities for special applications are available upon request.

## TECHNICAL INFORMATION

| Belt type | Carcass thickness (mm) | Carcass weight (kg/m²) | Pulley diameters* | | | Min. width[2] (mm) | Max. belt width (mm) for satisfactory load support with material density of t/m³:** | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | A (mm) | B (mm) | C (mm) | | < 0.75 | 0.75 - 1.51 | .5 - 2.5 | 2.5 - 3.2 |
| T 400 | 4.5 | 5.6 | 400 | 315 | 250 | 650 | 1800 | 1600 | 1400 | 1200 |
| T 500 | 4.9 | 6.1 | 500 | 400 | 315 | 800 | 2000 | 1800 | 1600 | 1400 |
| T 630 | 5.2 | 6.5 | 630 | 500 | 400 | 800 | 2000 | 1800 | 1600 | 1400 |
| T 800 | 5.9 | 7.3 | 800 | 630 | 500 | 800 | 2200 | 2000 | 1800 | 1600 |
| T 1000 | 6.1 | 7.5 | 800 | 630 | 500 | 1000 | 2200 | 2200 | 2000 | 1800 |
| T 1250 | 6.9 | 8.5 | 1000 | 800 | 630 | 1000 | 2200 | 2200 | 2200 | 2000 |

* Diameter for belt-loads from 60% up to 100%.
For lower loads a smaller diameter can also be suitable.

** The load support of a belt is a factor of the belt width, belt strength and bulk material density. The table indicates the limits for correct load support, based on three idlers of the same length set at 30°.

## Technical support

When you buy Fenner Dunlop you get more than just top quality products because we have one of the most experienced and highly trained teams of specialists and application engineers in the industry. Our global team provides an unrivalled level of service, visiting our customers on-site, providing technical advice, guidance and practical support.

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