



METALTRANS

1 WEFT

SEMPERTRANS® offers you its METALTRANS range

The METALTRANS belt consists of an assembly of two layers of rubber-core impregnated cords.

Genuine carcass consisting of:

- one layer of cords in the warp direction
- one layer of cords in the weft direction (instead of two for the METALCORD belt)

Our METALTRANS belt is constructed with cords equally tensed individually, just like the METALCORD belt.

Each layer of cords, warp and weft, is separated by a layer of rubber to avoid any risk of fatigue corrosion.

Belt complying with standard EN ISO 15236.



ABRASION RESISTANCE



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Please note: Before using the product in new areas of application which are not covered by the product information a Sempertrans engineer MUST be asked for advice. Stocking, care and maintenance of all our products must be performed according to our stocking, care and maintenance guidelines and according to ISO 5285 standard ;

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METALTRANS WITH D GRADE COVER (superior quality anti-abrasive)

METALTRANS

ABRASION RESISTANCE

CARCASS

- ELASTIC CORDS M: construction 4x7
elongation under reference load: 0.4 to 0.6 %

| DESIGNATION | METALTRANS M 1TA (1 steel weft) | | | | | | | | |
|-------------|---------------------------------|-----|-----|------|------|------|------|------|------|
| Type (N/mm) | 500 | 630 | 800 | 1000 | 1250 | 1400 | 1600 | 1800 | 2000 |
| ø 2.85 mm | | | | | | | | | |
| ø 3.8 mm | | | | | | | | | |

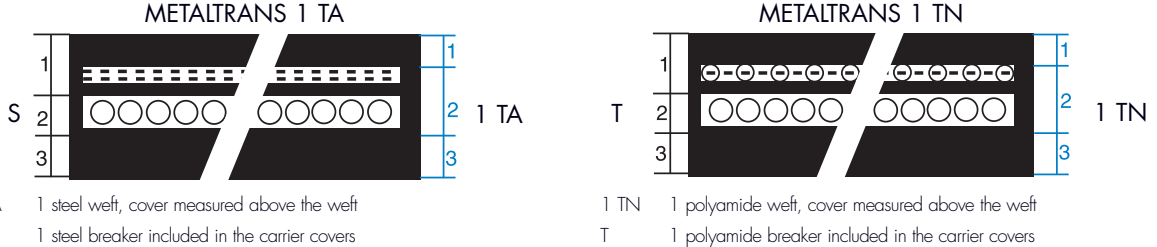
- MEDIUM ELASTIC CORDS E: construction 7x7, 7x19
elongation under reference load: 0.2 to 0.3 %

| DESIGNATION | METALTRANS E 1TA (1 steel weft) | | | | | | | | | | | | |
|-----------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Type (N/mm) | 800 | 1000 | 1250 | 1400 | 1600 | 1800 | 2000 | 2250 | 2500 | 2800 | 3150 | 3500 | 4000 |
| ø 3.1 mm | | | | | | | | | | | | | |
| ø 3.7 À 8.6 mm* | | | | | | | | | | | | | |

* Diameter and pitch of cords as per customer request.

POSSIBLE CONSTRUCTIONS OF WEFTS

In accordance with your needs, our Design Office can offer you variants derived from the METALCORD range:



1: Top cover 2: Carcass 3: Bottom cover

COVER PAIRS (type, standard, as per customer request, min.)

| Type (N/mm) | 500 | 630 | 800 | 1000 | 1250 | 1400 | 1600 | 1800 | 2000 | 2250 | 2500 | 2800 | 3150 | 2500 | 4000 |
|----------------|-------------------------------|-----|-----|------|------|------|------|------|------|------------|------|------|----------|------|------|
| Range | 4+3, 6+3 (others, consult us) | | | | | | | | | | | | | | |
| As per request | Min. 4+3 | | | | | | | | | Min. 5 + 4 | | | Min. 6+5 | | |

WIDTH

Possibility of supply in all widths, from 600 mm to 1200 mm.

For widths between 1200 and 2000 mm, please consult our technical departments for the supply possibilities.

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CARCASS

| METALTRANS M 1TA (1 steel weft) | | | | | | | | | |
|-------------------------------------|-----|-----|-----|------|------|------|------|------|------|
| Type (N/mm) | 500 | 630 | 800 | 1000 | 1250 | 1400 | 1600 | 1800 | 2000 |
| Carcass thickness (mm) | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5.8 | 5.8 |
| Carcass weight (Kg/m ²) | 6.6 | 7.1 | 7.8 | 8.7 | 9.6 | 9.8 | 10.1 | 13.8 | 14.3 |

Values given for information

| METALTRANS E 1TA (1 steel weft) | | | | | | | | | | | | |
|-------------------------------------|-----|------|------|------|------|------|------|------|------|------|------|------|
| Type (N/mm) | 800 | 1000 | 1250 | 1400 | 1600 | 1800 | 2000 | 2500 | 2800 | 3150 | 3500 | 4000 |
| Carcass thickness (mm) | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6.5 | 7.5 | 8.5 | 9.4 | 10.4 |
| Carcass weight (Kg/m ²) | 9.6 | 9.7 | 10.1 | 10.6 | 11.3 | 12 | 12.8 | 16.6 | 19.1 | 21.2 | 24 | 27.1 |

Values given for information

- For manufacturing with nylon wefts (1TN), take approximately 0.5 kg/m² away from the METALTRANS 1 TA belt.

COVER

METALTRANS belts can be produced in most of the cover grades of our range. See details of characteristics on pages 66 and 67.

DENSITY OF VARIOUS STANDARD COVERS

| Cover | D | X | Y | W | J2/K | CR | TEA | TEB | CW | G | GM | JGM | JGF |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Weight in Kg/m ² for 1 mm of Gum | 1.16 | 1.11 | 1.12 | 1.12 | 1.20 | 1.33 | 1.12 | 1.07 | 1.20 | 1.15 | 1.13 | 1.21 | 1.27 |

Values given for information

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TECHNICAL SPECIFICATIONS (see page 66)

- Cover grade / resistance of covers to products conveyed
- Pulley diameter
- Tension travel
- Trough transition lengths
- Radius of curvature
- Turnover
- Station spacing
- Roller skirt clearance
- Splicing

CROWN OF PULLEYS.**M CORD BELT**

On a trough type conveyor, M cord belts function correctly without a crown. However, on conveyors with a small centre distance, the crown is an effective element for the centring of a belt. It is in this case tolerated with the limits $f < 0.01 \times$ pulley diameter.

E CORD BELT

Crown prohibited in all cases.

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