



TRANSTHERM

HIGH HEAT

This range is designed to meet the increasing mechanical and thermal stresses generated by the conveying of materials at temperatures between 100 °C and 220 °C with possible peaks at 300 °C.

Optimum performances are obtained with the TEC cover.



HEAT RESISTANCE

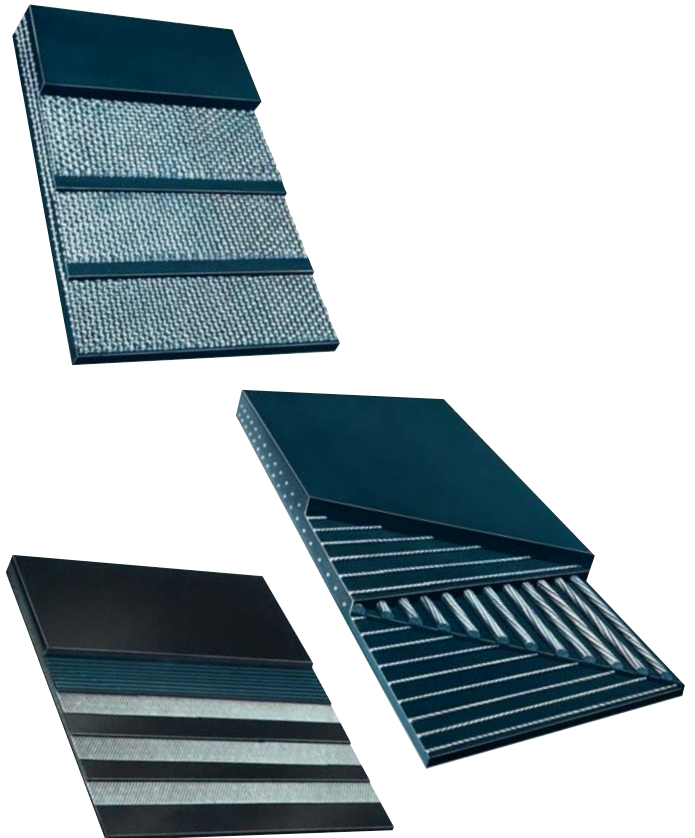
SEMPERTRANS® is able to offer you three possible structures:

- **Multiply** consisting of 2 to 4 plies of EP (polyester warp and polyamide weft) or PP (polyamide warp and polyamide weft) woven fabric with rubber interfaces.
- **Multiply** consisting of EP (polyester warp and polyamide weft) or PP (polyamide warp and polyamide weft) woven fabric with rubber interfaces protected by an anti-shock metal shield incorporated in the top cover.
- Entirely metal carcass comprising a heat shield incorporated in the top cover. (MVH belt of which the heat shield has the property of evacuating the stored calories).

Areas of application

- Cement works
- Iron and steel industry
- Chemical industries - Fertilisers
- Foundries
- Lime kilns
- Mining industries
- Salt works
- Public works
- Glassworks

This list is not exhaustive. Our technical sales representatives are at your disposal to advise you in your choice and in any other application justifying the use of the TRANSTHERM belt.



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The figures stated in our documents are mean approximate values for information but no specified or warranted values.

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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COVER GRADES

TRANSTHERM is available with five cover grades:

- Coke Warf CW, based on SBR, for conveying of materials at medium temperature with fireproofing
- TEA/T1, based on SBR, for conveying of materials at medium temperature
- TEB, based on BUTYL/EPDM mixture, for conveying of materials at high temperature
- T2, cover based on EPM, carcass based on SBR
- TEC based on EPM for conveying of very abrasive materials at high temperature

COVER CHARACTERISTICS

	Basic ELASTOMER	Permanent TEMPERATURE of material	Abrasion LOSS (mm ³) ISO 4649 DIN 53516 NFT 46012	Breaking STRENGTH NFT 46002 ISO 37 (MPa)	Breaking ELONGATION NFT 46002 ISO 37 (%)
Coke-warf / CW	SBR	++	++	+++	+++
Transtherm / TEA / T1	SBR	++	+++	+++	+++
Transtherm / TEB	BUTYL/EPDM	+++	+	++	+++
Transtherm / T2	EPM, SBR carcass	+++	++	++	++
Transtherm / TEC	EPM	++++	++	++	++

+ Average performance ++ Good performance +++ Very good performance ++++ Excellent performance

Remark: grade CW is fireproof as per standards NF EN 20340, ISO 340, DIN EN 20340 and EN 20340 and anti-static as per ISO 284, NF EN 20284, DIN EN 20284, EN 20284 and PN EN 20284.



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STANDARD RANGE

The above range corresponds to our standard range. On order, manufacturing is possible:

- in widths, in grade TEA / T1, of up to 2800 mm for textile belts
up to 3200 mm for metal belts
other grades: consult our technical departments
- in specific cover thicknesses
- in types up to 3500/5 in textile TEA / T1 and up to 2800 N/mm in metal TEB

Remark: Manufacturing minimum for non-standard belts: 200 m².

DESIGNATION	TRANSTHERM		
	Textile multiply		METAL
Type of carcass	TEA	TEC	MWH
Belt type	400/3	500/3	M 500
Cover thickness	5+2	5+3	6+3
Rated width	650	800	1000
mm	1000	1000	1000

✱ with cut edges
● with moulded edges

SIZE AND WEIGHT CHARACTERISTICS

	TEA 400/3 5+2	TEC 500/3 5+3	METAL MWH 500
Total thickness (mm)	9.7	11.2	13
Total weight (kg/m ²)	11.4	13.0	17.1

Values given for information

TECHNICAL SPECIFICATIONS (see page 66)

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

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RECOMMENDATIONS

It is important to note that there is a major difference between the temperature of the product conveyed and the temperature transmitted to the cover by the materials conveyed.

This difference between the surface temperature of the belt and the temperature of the product conveyed may vary according to various parameters:

- grain size of material
- length of conveyor (cooling on return strand)
- ambient temperature
- ventilation or possible watering

The following average values may be taken on an approximate basis:

Materials conveyed	Fine materials such as Cement, Calcium Calcينات (CaO), Clinker and Foundry Sand	Materials with large grain size and high abrasiveness such as Pitch, Iron and Steel Industry Coke, Pellets, etc.
Maximum temperature of material (°C)	* 150 170 200	* 150 250 300
Average temperature of material (°C)	120 130 160 190	130 140 200 220
Temperature at surface of belt (°C)	100 110 150 180	110 130 160 180

* Incandescent points accepted

Fireproofed Coke Warf

- textile
- textile with metal breaker
- metal

TRANSTHERM TEA / T1

- textile
- textile with metal breaker
- metal

TRANSTHERM TEB / T2

- textile
- textile with metal breaker
- metal

TRANSTHERM TEC

- textile
- metal (consult us)



In certain cases of use, temperatures higher than those indicated above may be envisaged. Consult our technical departments.

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