# TRANSFLAM





## ANTI-STATIC SAFETY BELTS

Depending on the conditions of use (surface or bottom) and the level of safety demanded, the various international (or national) standards define the tests which the belts must undergo to meet the criteria defined by these standards. In addition, certain countries demand specific approvals for underground uses, mainly in coal mines.

All our EP (polyester warp, polyamide weft) and PP (polyamide warp, polyamide weft) textile carcass belts or metal belts (METALCORD, STAHLCORD, METALTRANS) are available in fireproof quality (see page 37).

They are manufactured on demand:

- in specific cover thicknesses of 3+1.5 to 15+10
- in widths of 400 to 2800 mm
- in the following breaking strengths:

#### - TRANSFLAM textile, EP or PP fabric

2 plies: 250 N/mm to 1250 N/mm 3 plies: 400 N/mm to 1400 N/mm 4 plies: 500 N/mm to 2500 N/mm 5 plies: 630 N/mm to 3500 N/mm

#### - TRANSFLAM metal

with M cords: 500 N/mm to 2000 N/mm with E cords: 800 N/mm to 2250 N/mm

with DIN construction cords:

630 N/mm to 5400 N/mm

**IMPORTANT NOTICE:** This brochure has been prepared carefully, to advise our customers. The information stated therein is state of the art and the results of different tests carried out over several years. Individual operating conditions affect any product, which means that a product can only offer the safety that can be expected on the basis of the data provided in our product information. In the event that the product is used otherwise than in conformity with the specifications, such safety may not be assumed. Our responsibility is limited exclusively to delivery of the conveyor belt in accordance with the

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The TRANSFLAM range is a range specially designed to meet the safety requirements of various industries.

### These belts are designed mainly:

- to prevent the propagation of an accidental fire
- to guard against risks of explosion due to the accumulation of static electricity

#### Characteristics of conveyor to be equipped

All the data concerning the conveyor to be equipped...

- minimum pulley diameter
- trough transition length
- tension travel to be allowed for
- .. are indicated in the Technical Recommendations section.

#### Heat resistance

The temperatures of use of our fireproof belts are the same as those of our anti-abrasive belts, i.e. a range of -25 to

All COKE WARF belts are available for applications with a temperature of use of up to 120° with peaks of up to



**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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#### LIST OF FIREPROOFING STANDARDS AVAILABLE

DESIGNATION	Standards	Characteristics requireds	Brief description of test. Tests and test method
Valid for all flame-resistant belts	ISO 284 NF EN 20284 DIN EN 20284 PN EN 20284	Anti-static Electrica <mark>l conducti</mark> vity	Measurement of electrical conductivity between electrodes. The resistance must be less than 3x10° ohms
K	ISO 340 NF EN 20340 DIN 22103 DIN EN 20340	Flame-resistant with cover	Burner test. Belt tested with cover
S	ISO 340 NF EN 20340 DIN 22103 DIN EN 20340	Flame-resistant with and without cover	Test same as above but belt tested with and without cover
CSA Klasse C	standard canadien association	Flame-resistant with cover as per Canadian standard	«Requirements of CSA standard CAN/CSA-M87 Fire performance and antistatic requirements for Conveyor Belting»  • burner test  • pulley test • electrical resistance test
GME	PN 71/C05011	Polish standardisation	As per existing standardisation
TG (V)	Pit bottom belt for Poland, Russia, Ukraine, etc.	Approved belts	As per existing standardisation
CR/VT (FRANCE)	DIN 22118 NFT 47107 DMH 50 Approved belts	Self-extinguishable Main application underground coal	<ul> <li>Test in gallery</li> <li>Lengths intact after extinguishing of burner on an initial sample of given width</li> <li>Pulley test</li> </ul>
D : NT CR :VT	DIN22109 part 4 DIN22109 part 6	Refers to DIN 22118 for the flame test	Coal mines in Germany  special fabric. Two-ply belts  separable sandwich  NT grade: without safety criterion; anti-abrasive cover  VT grade: with CR grade safety criterion
CES 8	CES8 British Steel Standard (GB)	Flame resistance with propane burner in air current	Test in mini-gallery
J5	National Mining Research Center Skochinsky Institute of Mining, Moskau	Flame resistant with cover as per Russian standard	burner test     pulley test     electrical resistance test
TM	PN 74/C94143 PN C 05019 PN EN 20284	Flame resistant Polish standard	Approved for mines, mineral without methane

Weights and thicknesses of these belts: consult our technical departments.

### 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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