

# IMAS Conveyor Belts



## Conveyor Belts for Underground Coal Mining

**FRAS Fire Resistant  
Antistatic Series**



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**Compliance with the most stringent safety requirements and products of highest quality are essential for reliable performance under the most demanding operating conditions.**

For more than three decades, ContiTech IMAS has been supplying thousands of kilometers of underground belting. Our state-of-the-art equipment and strict quality procedures in every step of the production are the keys to secure the highest quality. Backed by more than 40 years of experience in compounding, our rubber experts have developed a wide range of flame-resistant compounds with excellent physical properties.

We can thus ensure that, in addition to satisfying FRAS requirements – for which approvals are already in place – our belts:

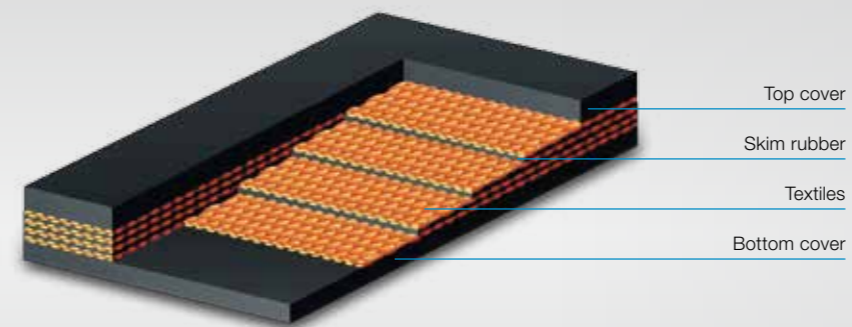
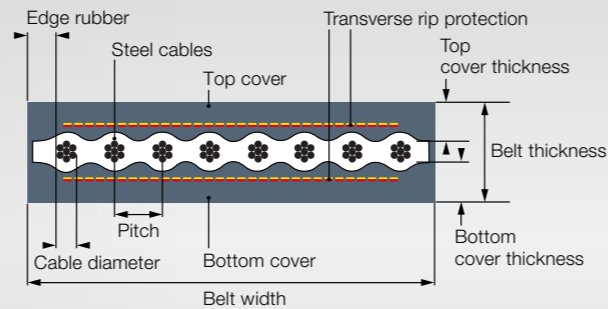
- enhance safety for personnel
- provide life cycle cost advantages
- ensure a long belt life

### Splicing

In order to get the most out of our high quality flame-resistant belting, we recommend to follow our splicing instructions and to use splicing materials manufactured by our own splice kit department. In this way you can be assured that you receive the freshest material of the highest quality for a strong, long-lasting splice.

### Fire and safety requirements for fabric and steel cord conveyor belts for use in Australian underground coal mines

Reference Standards	Belt Grade	Resistivity Electrical resistance of covers Test method acc. to AS 1334.9	Drum friction test Ignitability and maximum surface temperature of belting subjected to friction Test method acc. to AS 1334.11			Finger burn test Ignitability and flame propagation characteristics Test method acc. to AS 1334.10		Gallery test Combustion propagation characteristics Test method acc. to AS 1334.12
			Flame	Glow	Max. surface temperature	Permissible flame duration		
						With covers	Without covers	
AS 1332 AS 1333 AS 1334 AS 4606	"S"	≤ 300 M Ω	Not permitted	Not permitted	325 °C	each single sample < 15 sec average of all samples < 10 sec	each single sample < 25 sec average of all samples < 15 sec	Minimum undamaged length of 250 mm over full width



### Standard range for fire-resistant steel cord belts

Designation	Thicknesses		Min. drive pulley diameter** (mm)
	Covers (mm)	Total* (mm)	
ST 1000	6 + 4	14.1	800
ST 1250	6 + 4	14.4	800
ST 1600	8 + 6	19.3	1000
ST 1800	8 + 6	19.7	1000
ST 2000	8 + 6	20.3	1250
ST 2240	10 + 6	22.7	1250
ST 2500	10 + 6	23.5	1400
ST 2800	10 + 8	26.1	1400
ST 3150	10 + 8	26.6	1400
ST 3550	10 + 8	27.2	1600
ST 4000	12 + 8	29.3	1600
ST 4500	12 + 8	30.4	1800
ST 5000	12 + 10	32.8	1800

\* Approximate values  
\*\* Please contact us for precise calculations of your respective application.

### Standard range for multi-ply fire-resistant belts

Designation	Thicknesses		Min. drive pulley diameter** (mm)
	Covers (mm)	Total* (mm)	
EP 500/3	4 + 2	10.0	500
EP 630/3	4 + 2	10.5	500
EP 630/4	4 + 2	11.5	630
EP 800/4	4 + 2	12.0	630
EP 1000/4	4 + 2	13.5	800
EP 1250/4	4 + 2	14.0	1000
EP 1600/4	5 + 3	17.8	1000
EP 1000/5	5 + 3	15.6	800
EP 1250/5	5 + 3	17.4	1000
EP 2000/5	6 + 4	22.2	1400
EP 2500/5	6 + 4	25.3	1600

\* Approximate values  
\*\* Please contact us for precise calculations of your respective application.

In underground applications, safety and reliability are of highest importance.

Our standard products are available in widths of up to 2,600 mm.

Transverse reinforcements and/or sensor loops can be installed in steel cord belts as well as textile belts if desired.

**Different tensile strengths and cover thicknesses are also available on request.**





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