FIRE RESISTANCE BELT

FORECH's flame-resistant conveyor belts are engineered using advanced materials and technology to prevent fire spread and enhance safety in hazardous environments. Designed to minimize fire propagation and safely dissipate static electricity, these belts meet stringent international safety standards. They combine fire retardancy with durability, ensuring long-lasting performance without compromising wear resistance. Available in multiple safety classifications, they provide reliable protection for both above-ground and underground applications.

PRODUCT FEATURES

- Compliance: Meets leading international safety standardsincluding EN 14937, EN 12882, ISO 340, FRAS, and MSHA
- Static Safety: Enhanced static conductivity safely dissipates static electricity, reducing spark risks
- Durability: Durable design ensures long service life without

PRODUCT RANGE

BELT WIDTH

400mm to 2600mm

NOMINAL BELT STRENGTH

upto 3150 kN/m

EDGE

Cut/Moulded Edge

NO. OF PLIES

2 to 7 ply

SPLICING METHOD

Hot/Cold/Mechanical (RBF)

APPLICATIONS

- Underground and hard rock
- Cement Industry
- Steel Industry
- Power Plant

DATA: TECHNICAL INFORMATION

Fire Resistant Test compliance to Standard	Minimum Tensile Strength	Minimum longation at Break (%)	Maximum Abrasion Loss (mm3)	Application Characteristics
FR MSHA 2G	15	350	190	Moderate resistance to flame for over ground application
FR CAN - C	17	400	175	Good resistance to flame for over ground applications
FR DIN K	17	400	175	
FR IS 1891	17	400	175	
FR - AS F	17	400	175	Very good resistance to flame, suitable for high risk over ground/low risk underground application
FR - DIN S	17	400	175	
FR - SANS 971:2003	17	400	175	
FR MSHA BELT (PART 14)	15	400	200	Excellent resistance to Flame propagation, suitable for underground mining application
FR - SANS 971:2013	15	400	170	
FR AS 4606:S	20	400	120	

TABLE : SUMMARY OF SAFETY CLASSES FOR CONVEYOR BELTS FOR UNDERGROUND INSTALLATIONS

CLASS	APPLICATION	SURFACE RESISTANCE EN ISO 284	DRUM FRICTION EN 1554, Method B2					FIRE PROPAGATION METHOD
			Flame	Glow	Max. drum temperature °C	Aggregate of each set of six test piece s	Maximum for any one test piece s	
A	General use, only hazard being limited access and means of escape	≤ 300 MΩ	No	Permitted	No limit	< 45/45b	15	EN 12881–1:2014, Method A. If incomplete ignition achieved, use Method B or C
B1	As Class A plus potentially flammable atmosphere. No secondary safety devices	≤ 300 MΩ	No	No	450	< 45/45b	15	EN 12881–1:2014, Method A. If incomplete ignition achieved, use Method B or C
B2	As Class A plus potentially flammable atmosphere. With secondary safety devices	≤ 300 MΩ	No	Permitted	No limit	< 45/45b	15	EN 12881–1:2014, Method A. If incomplete ignition achieved, use Method B or C
C1	As Class B1 plus combustible dust or material conveyed. No secondary safety devices	≤ 300 MΩ	No	No	325	≤ 18/30b	10/15b	EN 12881–1:2014, Method B or C
C2	As Class B1 plus combustible dust or material conveyed and additional fuel sources (fire load). With secondary safety devices	≤ 300 MΩ	No	Permitted	No limit	< 45/45b	15	EN 12881–2, or EN 12881–1:2014, Method D for belts according to Table 1

Ref: DIN EN 14973:2018-05