

Datasheet for **compri - FS 1000 / EN45545-2**

Intumescent foam gasket for railway vehicles with EN45545-2 and UL94 certificate



Product informations

FS1000 is a high performance adhesive foam designed with a unique combination of sealing properties. FS1000 expands on fire, is fire resistant and blocks smoke, air and water. In its original state, FS1000 is soft, conformable and easy to apply to complex surfaces.

Function / areas of application

Construction industry: joints in walls, floors, ceilings, windows and doors, air conditioning systems and many other critical areas that require fire compartments.

Automotive: protection of fuel tanks, (H)EV battery packs, etc.

Aerospace: seats, freight compartments and other critical areas.

Advantages

- From 200°C expansion and formation of a fire-retardant layer.
- Airtight 1000 Pa at 30% compression.
- Waterproof by 30% compression.
- Easily compressible and low compression set.
- Vibration damping, decoupling.
- Adapts to uneven joints.
- Simple installation.
- Environmentally friendly, without halogen compounds, no toxic gas emissions when heated.



Technical data

Dimensions

Thickness	4.5 – 6 – 9 mm	
Width	Max. 1360 mm	
Density	240 kg/m ³	ISO 6916-1

Fire behaviour

Fire resistance	Prescription register Nr.: E494597	UL94 V
Oxygen minimum value	30	ISO 4589-2
EU small burner test	B (corresponding classification)	ISO 11925-2
Expansion ratio: 0 % compression	200 %	PRT129
Activation temperature	200 °C	PRT130
Fire resistance	R22/R23, HL2 for ITC and LOI	EN 45545
Fire resistance	EI45-EI180 (depending on configuration)	EN 1366-4/rating EN 13501-2

Dynamic properties

Compression force at 30 %	10-30 kPa	ASTM D1667
Compression restoring force at 30%	5-15 kPa	ASTM D1667
Tensile strength	180-200 kPa	ISO 1798
Elongation at break	85-120 %	ISO 1798
Compression set 15 days at 50 % at 23°C	5 %	ASTM D1667

Isolation properties

Thermal conductivity	0.039 W/m.K	ISO 8302
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Tightness properties

Watertightness: 1000 Pa, 30 % compression	> 72 h before leakage	NTP 38 (U-Test 100 mm)*
Airtightness: 1000 Pa, 30 % compression	0 ml/m.min (air outlet)	PRT128*

* internal technical procedures. All of the data listed are approximate values and are not binding.