

FS1000 Datasheet

Intumescent Foam Tape

Description

FS1000 is a high-performance foam tape designed with a unique combination of sealing properties. FS1000 is expandable and fire resistant, blocking smoke, air and water. In its natural state, FS1000 is soft, conformable, and easy to attach to complex surfaces.

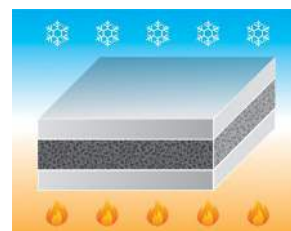
FS1000 has a unique combination of properties:

- **Expandable and fire resistant** : When heated to more than 200°C, FS1000 will expand and form a fire-resistant char, blocking fire, smoke and hot gases.
- **Airtight** : Compressed by 30%, FS1000 is airtight up to a pressure of 1000 Pa, depending on the surface of the application.
- **Watertight** : FS1000 is watertight when compressed by 30%.
- **Compressible and resilient** : It can be easily compressed and comes back to its original thickness after compression
- **Vibration damping** :. As a result of its resilience, FS1000 is able to damp vibrations and decouple two elements.
- **Conformable** : Soft; will conform to uneven surfaces.
- **Easy installation** : Produced in various thicknesses with adhesive on one side for easy application.

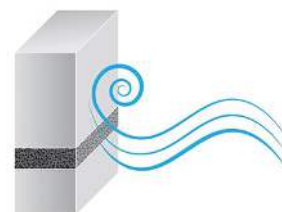
FS1000 contains no halogen compounds, and there are no concerns of toxic gas emissions when heated. The material does not disperse dust during installation, so it is safe for workers and other people nearby.



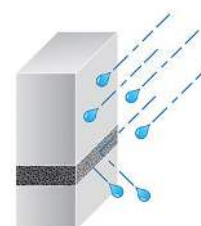
Intumescent



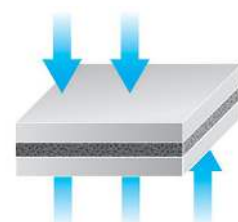
Thermally Insulating



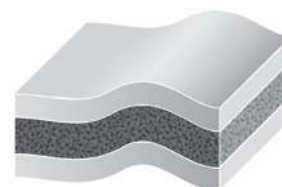
Airtight



Watertight



Compressible &
Resilient



Conformable

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01.03.2017

Technical Data

Category	Property		Standard	Unit	Value
Thickness			-	mm (in)	4.5 - 6.0 - 9.0 - 13.0 (.18 - .24 - .35 - .51)
Density			ISO 6916-1	kg/m³	240
Dynamic properties	Force to Compress	@20%	ASTM D1667	N/cm²	9 - 25
		@40%			30 - 70
		@60%			82 - 160
	Compression Force Deflection	@20%			4 - 11
		@40%			12 - 30
		@60%			34 - 72
	Tensile Strength		ISO 1798	kPa	180 - 200
	Elongation at Break			%	85 - 120
	Compression Set @15 days at 50% at 23°C		ASTM D1667	%	5
Combustion	ASTM 4986		ASTM 4986	Classification	V0
	Limit oxygen index		ISO 4589-2		27.5
	EU small flame test		ISO 11925-2	Equivalent classification	B
	Expansion ratio		PRT129	%	200
	Temperature of activation		PRT130	°C	200
Insulation properties	Heat conductivity		Internal	W/m.K	0.039
Tightness properties	Water tightness	30 % compression	NTP 38 (U-Test 100mm)	Hours before leakage	> 72
	Air tightness	1000 Pa 30 % compression	PRT128	Air leakage in ml/m/min	0

Product Availability

Product	Thickness	Available widths	Roll length	Release liner
FS1000	4.5mm	6mm to 1400mm	20M	Easy release paper liner
	6mm	6mm to 1400mm	15M	Easy release paper liner
	9mm	9mm to 1400mm	11M	Easy release paper liner
	13mm	15mm to 1400mm	8M	Easy release paper liner

Warranty

Our technical advice is offered in good faith but without warranty. The user is responsible for testing under their own conditions of use assuring themselves that it is suitable for their particular purpose. The technical data was obtained under specific laboratory test conditions, and should not be used for specification purposes without prior consultation with us.