



## Product

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

## Applications

- Construction: joints in walls, floors, ceilings, windows and doors, HVAC and many other critical areas requiring fire compartmenting.
- Automotive: protection of fuel tanks, (H)EV battery packs, etc.
- Aerospace: seats, freight compartments and other critical areas

**Colour :** grey

## Thicknesses, widths, lengths

thickness	width	length
(mm)	(mm)	(m)
4,5	6 to 1.350	20
6	6 to 1.350	15
9	9 to 1.350	11

## Available forms (packaging)

Rolls, packed in boxes

## Advantages/properties

\* Expandable and fire resistant. When heated to more than 200°C, CS-FS1000 will expand and form a fire resistant char, blocking fire, smoke and hot gases.

\* Airtight. Compressed by 30%, CS-FS1000 is airtight up to a pressure of 1000 Pa, depending on the surface of the application.

\* Watertight. CS-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, CS-FS1000 is able to damp vibrations and decouple two elements.

\* Conformable. Soft; will conform to uneven surfaces.

\* Easy installation. Produced in various thicknesses, delivered with or without adhesive on one side.

\* Environmentally friendly. 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.

## Technical properties

Property	Value + unit
Density (ISO 6916-1)	240 kg/m <sup>3</sup>
Force to compress @30% (ASTM D1667)	10-30 kPa
Compression force deflection @30% (ASTM D1667)	5-15 kPa
Tensile strength (ISO 1798)	180-200 kPa
Elongation at break (ISO 1798)	85-120 %
Compression set @15 days at 50% at 23°C (ASTM D1667)	5 %
UL94 V	VO file number E494597 (classification)
Limit oxygen index (ISO 4589-2)	30
EU small flame test (ISO 11925-2)	B (equivalent classification)
Expansion ratio (volume) @0% compression (PRT129)	200 %
Temperature of activation (PRT130)	200 °C
Fire resistance (EN 45545)	HL2 (classification)
Fire resistance (EN 1366-4 /rating EN 13501-2)	EI45-EI180 depending on the configuration (classification)
Thermal conductivity (ISO 8302)	0.039 W/m.K
Water tightness 30% compression (NTP 38*) (U-Test 100 mm)	>72 hours before leakage
Air tightness 1000 Pa 30% compression (PRT128*)	0 air leakage in ml/m.min
Shelf life	12 months after production date. Storage conditions should remain below 30°C without exposure to sunshine

\*NTP refers to Norton Test Procedure. PRT refers to Internal Technical Procedure

## General information

The information contained in this document is provided in good faith and is believed to be correct. However, we have no influence on the conditions in which these products are used or the methods by which they are used. Therefore, this information is not a substitute for tests which the customer must perform himself/herself in order to ensure that the products are safe, effective and achieve the intended purposes. Suggestions regarding the use of the product must not be used as grounds for infringement of any patent whatsoever. The only guarantee Castelein Sealants offers is that this product complies with the Castelein Sealants terms and conditions of sale in force at the time of shipment. Your only remedy in the event of a breach of this guarantee is the refund of the purchase price or the replacement of the product that does not comply with the guarantee.

Technical data of supplier: 09-2021

The producer reserves the right to make changes. 2021 09 29