

Data sheet

ENGLISH

FireMaster® Expanding Felt



Description

FireMaster® Expanding Felt is a flexible insulating felt product manufactured from low bio-persistent alkaline earth silicate (AES) fibres together with a small amount of organic binder and a special additive which, when exposed to heat, produces an immediate expansion in thickness.

FireMaster® Expanding Felt will immediately expand a minimum of three times its original thickness on heating making it ideal for any application where assured fire protection is required under conditions of movement. Typical applications are construction joint sealing, penetration seals and fire protection applications requiring thin layers of insulation. The product has been extensively fire tested for vertical and horizontal movement joint fire protection for periods up to five hours without loss of integrity and for use in structural fire protection panels for high-speed craft.

Variations in the proportions of additives used allow engineering of expansion ratios to produce products with greater expansion than the standard product. For more details of this feature, please contact Morgan Thermal Ceramics.

Features

- No intumescent reaction. On expansion, Expanding Felt retains its passive insulation qualities which results in high thermal insulation performance in fires.
- No smoke generation in a fire. The expansion properties are achieved without releasing smoke or toxic fumes. The potential for smoke damage to the surrounding structure is therefore eliminated.
- Easy to use. Supplied either in sheet form that can be cut on site using a sharp knife, in pre-cut strip form, or (for some thicknesses) in rolls, Expanding Felt is convenient to install. The small amount of binder results in a flexible but very resilient product that can be easily inserted into joint gaps.
- Inert. The base material will not degrade over time.

Fire protection properties

- Tested to AS 1530 pt 4 standard (equivalent to BS 476 pt 20) in wall and roof slab construction joints up to 100mm wide.
- Tested in BS 476 pt 20 conditions for joints in vertical walls and joints in floors up to 150mm wide.
- Assessed by the Loss Prevention Council for fire protection of expansion joints to EN 1366-4.
- Reaction to fire classification in accordance with EN 13501-1.
A2 | S1 | D0

FIREMASTER®

SDS:
102-13-EURO

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Availability and packaging

The standard product is supplied in a sheet form in the following dimensions:

- Length: 1000mm
- Width: 500mm
- Thickness: 5, 10, 15, 20 or 25mm
- Density: 230kg/m³

Pre-cut strips are available if quantities are sufficient. Expanding Felt can be supplied in rolls in certain thicknesses.

For full details of the product range available please contact Morgan Thermal Ceramics.

| Dimensions mm | Thickness mm | Pallet | Box |
|---------------|--------------|--------|-----|
| 1000 x 500 | 10 | 250 | 10 |
| 1000 x 500 | 13 | 200 | 8 |
| 1000 x 500 | 15 | 175 | 7 |
| 1000 x 500 | 20 | 125 | 5 |
| 1000 x 500 | 25 | 100 | 4 |
| 1000 x 500 | 30 | 75 | 3 |
| 1000 x 500 | 40 | 50 | 2 |
| 1000 x 500 | 5 | 500 | 20 |
| 1000 x 500 | 50 | 50 | 2 |
| 1000 x 500 | 6 | 375 | 15 |

Contact

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SUPERWOOL® is a patented technology for high temperature insulation wools which have been developed to have a low bio persistence (information upon request). **SUPERWOOL®** products may be covered by one or more of the following patents, or their foreign equivalents:

SUPERWOOL® PLUS and **SUPERWOOL® HT** products are covered by patent numbers: US5714421 and US7470641, US7651965, US7875566, EP1544177 and EP1725503 respectively.

A list of foreign patent numbers is available upon request to Morgan Advanced Materials plc.

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