AODISI

FIRE TECHNOLOGY

产品资料与销售咨询

PRODUCT DOCUMENTATION & SALES CONTACT

KERAFIX ® FLEXpremium H - Technical Data Sheet-en

澳迪斯防火科技（廊坊）有限公司

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销售及选型联系 / Sales & product enquiries

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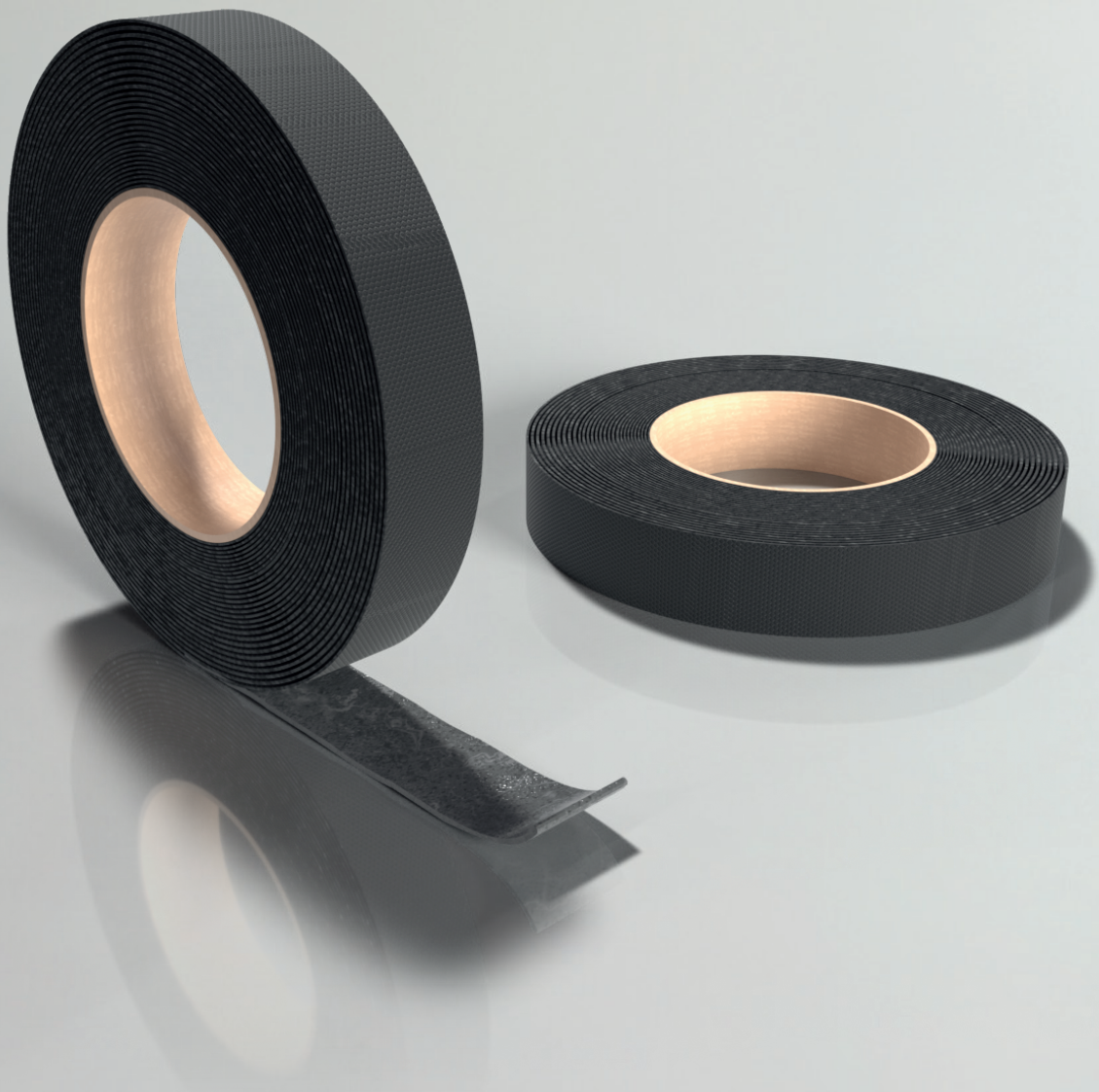
www.gmfireproof.com

以上为销售联系信息，不替代安全数据表中的应急联系电话。
原始技术内容及制造商、检测机构和证书签发信息见后续资料页。

Sales contact only; emergency contacts in safety data sheets remain applicable.
Original technical, manufacturer and certification details follow.

Technical Product Data Sheet

KERAFIX®
FLEXpremium H



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Tech.Rev.: 1.2
Ling. Rev.: 1.1

Product description

KERAFIX® FLEXpremium H is a versatile, halogen-free, expandable graphite-based sealing material that is used in fire protection doors, glazing systems, facades, safety storage cabinets and drywall construction. It is also suitable for structural joints, thermal insulation elements and pipe and cable penetration seals.

The material is flexible and is available in rolls. It begins to react at around 175 °C, at which point it forms a stable, pressure-resistant foam mass. It is insensitive to moisture and comes in a range of designs, including a variant that is laminated with glass fabric on one side, a self-adhesive variant and a variant with PVC film in a range of colours. KERAFIX® FLEXpremium H is delivered in standard lengths and widths, with a thickness of 1.5 mm or 2.0 mm. Special formats are available upon request.

Reaction to fire

- Class E (DIN EN 13501-1)

Properties

- Flexible material
- Excellent expansion properties at high temperatures
- Intumescent
- High expansion rate
- High temperature resistance
- Insensitive to moisture
- Free from halogens and substances that are hazardous to health
- Has a wide range of uses
- Easy to apply

Fields of application

- Fire protection doors made from wood, steel or aluminium
- Glazing
- Facades
- Safety storage cabinets
- Safes
- In drywall work: inspection flaps
- Partition wall and ceiling structures, structural joints
- Thermal insulation elements
- Pipe and cable penetration seals
- Gas stop valves
- Pneumatic drives

Technical data

Verification	ETA-18/0538: 15 June 2018
Composition	Expandable graphite-based foaming material that is free from halogens, asbestos and conflict minerals. Compliant with REACH, RoHS and VOC and UV-resistant
Material structure	Flexible roll material
Volatile components (VOC) [g/l]	None
Thermal conductivity [W/(m×K)]	0.303
Thermal conductivity reference temp. [°C]	10
Shore A hardness	60.2
Bulk density [kg/m³]	1300 (±10 %)
Start of reaction [°C]	175
Expansion rate [x times]	17 – 26
Reference expansion rate	550 °C – 30 min. – with superimposed load
Intumescent layer	Solid, stable material
Expansion pressure [N/mm²]	1.01 – 1.68
Reference expansion pressure	300 °C – method 4
Direction of expansion	Three-dimensional
Storage	In the original package at 18 – 25 °C and normal humidity (50 – 70%)
Shelf life (SK variant)	Can be stored for six to twelve months from the delivery date

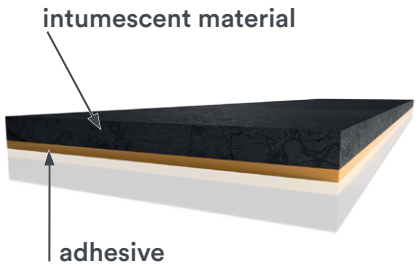
Design variants

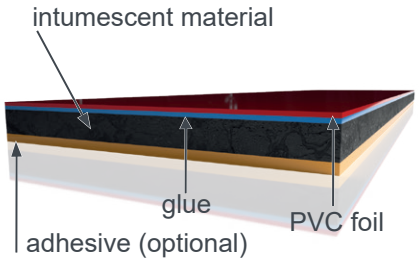
KERAFIX® FLEXpremium H, laminated with glass fabric on one side, black

SK variant: self-adhesive on one side

DF variant: laminated with PVC film in different colours on one side

Other design variants available on request.





Colour variants

Black, white, red

Processing information

1. Surface preparation:
   - The surface to be adhered to should be clean, dry and free from dust, oil and grease to ensure optimum adhesion.
   - For particularly strong adhesion, cleaning the surfaces with a suitable solvent is recommended.
2. Application temperature:
   - Ideally, the product should be applied at temperatures between +5 °C and +35 °C to ensure even and reliable adhesion.
3. Application:
   - When using the self-adhesive variants (such as the SK variant), remove the protective film just before installation.
   - Position the material precisely and press on evenly to ensure consistent adhesion. For intumescent materials in particular, applying even pressure along the entire length is important.

Shear force	Tensile force	Peel force	Splitting force



Strain less critical over whole areas

Prevent such strain through design

Delivery forms

Standard lengths [mm]	25,000 and 50,000
Standard widths [mm]	Up to 320 (widths > 320 on request)
Standard thicknesses [mm]	1.5 and 2.0 (special thicknesses available upon request)

All cuts (length × width) are produced in accordance with the general tolerance DIN ISO 2768-1-c.

All moulded parts and punched parts are produced in accordance with the general tolerance DIN 7715-5-p2.