AODISI

FIRE TECHNOLOGY

产品资料与销售咨询

PRODUCT DOCUMENTATION & SALES CONTACT

KERAFIX ® Flexpan 200 NG-G - Technical Data Sheet-en

澳迪斯防火科技（廊坊）有限公司

Aodisi Fire Technology (Langfang) Co., Ltd.

销售及选型联系 / Sales & product enquiries

19931333348

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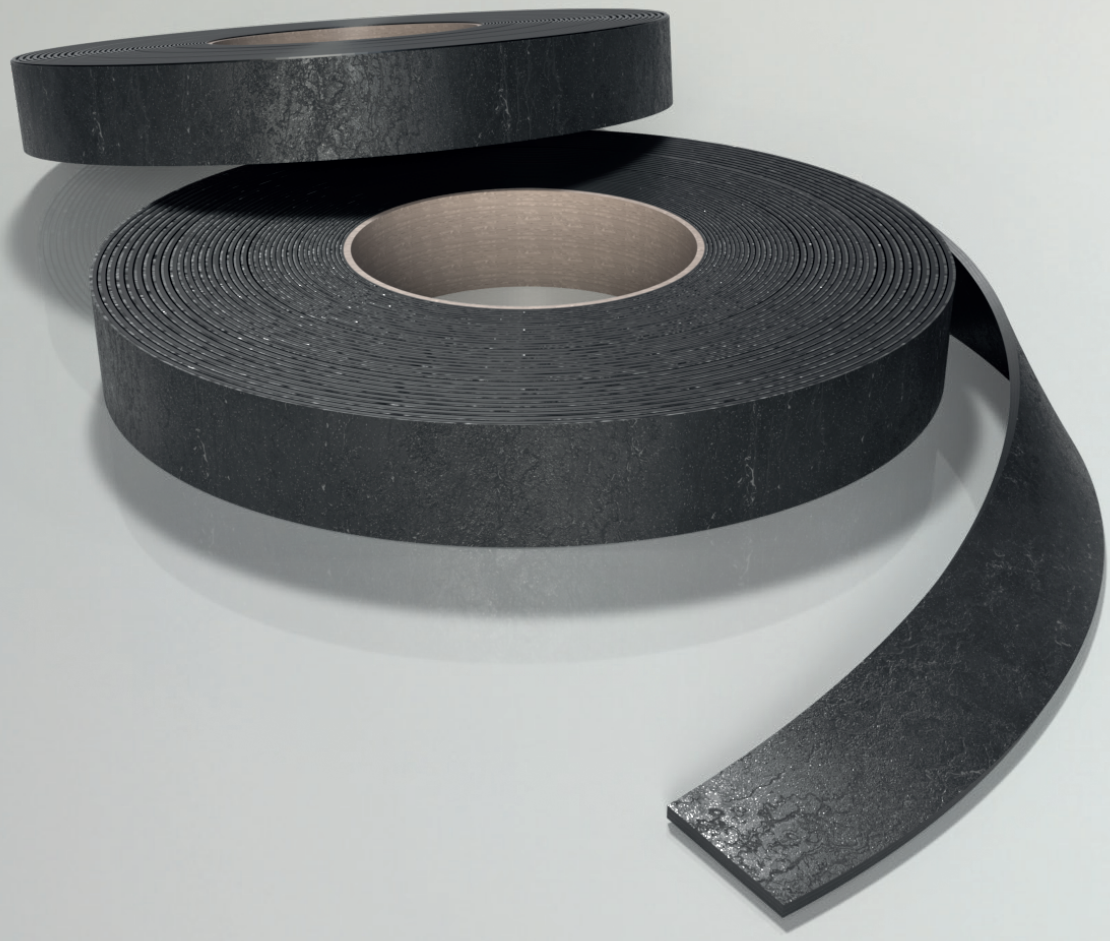
www.gmfireproof.com

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®
Flexpan 200 NG-G



ECO PLATFORM
EPD
VERIFIED

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Tech.Rev.: 1.0
Ling. Rev.: 1.0

Product description

KERAFIX® Flexpan 200 NG-G is an intumescent material that is particularly suitable for use in fire protection doors made from steel, aluminium and wood. It is also ideal for facades, safety storage cabinets, control cabinets and various dry lining applications.

The material is based on halogen-free, foaming expandable graphite and has a bulk density of 1200 kg/m³.

KERAFIX® Flexpan 200 NG-G starts to react from a temperature of around 200 °C, at which point it expands significantly to form an isolating barrier. It has an expansion rate of 15 to 27, thermal conductivity of 0.294 W/(m×K) and an expansion pressure of 0.50 to 1.0 N/mm².

The material is largely insensitive to moisture and is available in a number of different variants and dimensions.

Reaction to fire

- Class E (DIN EN 13501-1)

Properties

- Intumescent
- High temperature resistance
- Insensitive to moisture
- Free from halogens and substances that are hazardous to health
- Versatile and flexible to use
- Easy to handle and install
- Reliable protection against fire and smoke

Fields of application

- Fire protection doors made from steel, aluminium and wood
- Facades
- Safety storage cabinets
- Control cabinets
- Dry lining applications
- Inspection flaps
- Thermal insulation in buildings
- Structural joints and movement joints

Technical data

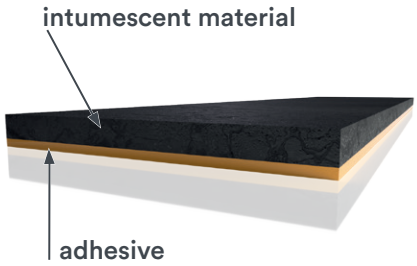
Verification	ETA-15/0719: 02 December 2015
Composition	Expandable graphite-based foaming material that is free from halogens, asbestos and conflict minerals. Compliant with REACH, RoHS and VOC and UV-resistant
Material structure	Flexible roll material
Volatile components (VOC) [g/l]	None
Thermal conductivity [W/(m×K)]	0.294
Thermal conductivity reference temp. [°C]	10
Shore A hardness	82.2
Bulk density [kg/m³]	1200 ±10 %
Start of reaction [°C]	200
Expansion rate [x times]	15 – 27
Reference expansion rate	450 °C – 30 min. – without superimposed load
Intumescent layer	Soft, cohesive material
Expansion pressure [N/mm²]	0.5 – 1.0
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® Flexpan 200 NG-G without additional lamination

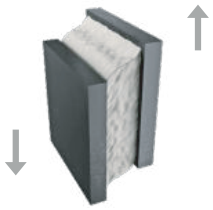
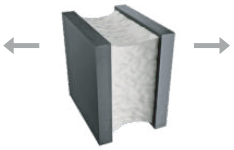
SK variant: self-adhesive on one side

Other design variants available on request.



Processing information

1. Surface preparation:
   - The surface to which the material is applied must be clean, dry and free from dust, grease and other dirt.
   - If necessary, clean thoroughly using an appropriate solvent to ensure the optimal adhesive conditions.
2. Application temperature:
   - The recommended ambient temperature for application is between +5 °C and +35 °C to ensure even adhesion and optimal functionality.
3. Application:
   - When using self-adhesive variants (such as the SK variant), the protective film should be removed just before installation.
   - Press the material firmly onto the surface to ensure full adhesion. Press down on the material evenly to avoid air pockets.

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
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.

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NEPD-12917-14166