AODISI

FIRE TECHNOLOGY

产品资料与销售咨询

PRODUCT DOCUMENTATION & SALES CONTACT

KERAFIX ® Cooling-Strip F - 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

492048031@qq.com

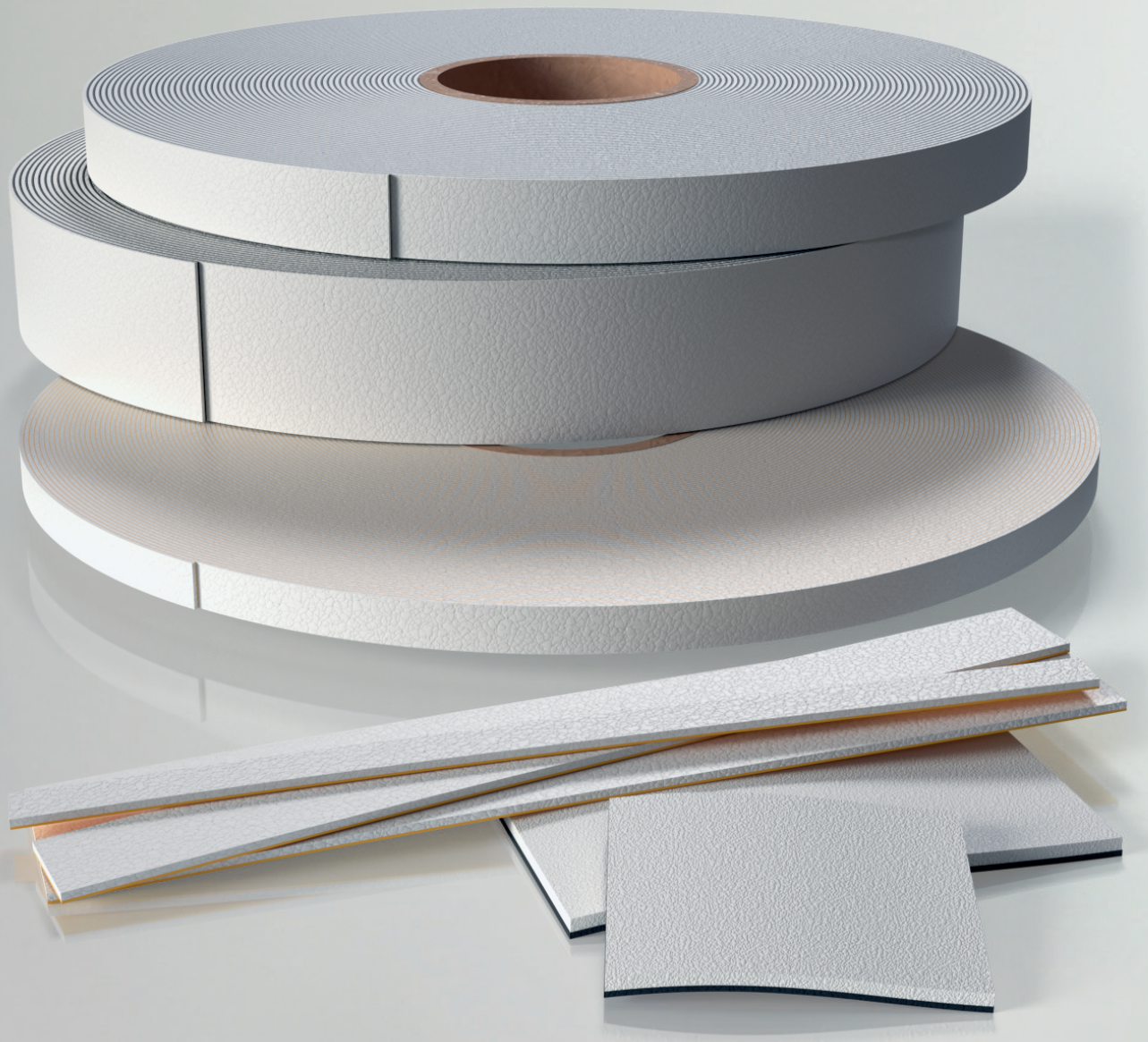
www.gmfireproof.com

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®
Cooling-Strip F



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Tech.Rev.: 1.1
Ling. Rev.: 1.0

Product description

KERAFIX® Cooling-Strip F offers outstanding cooling properties in case of fire, extending the fire resistance duration of fire protection constructs.

KERAFIX® Cooling-Strip F is made of minerals which absorb large amounts of heat once an activation temperature of approx. 100 °C is reached and release approx. 26% of water of crystallisation.

The application of KERAFIX® Cooling-Strip F and its special 2K variant coated on one side with Flexpress100 (ablative and intumescent) provides solutions with fire resistance periods from 30 minutes to over 90 minutes for wood, aluminium and steel constructs.

Reaction to fire

- Category D in accordance with DIN EN 13501-1

Properties

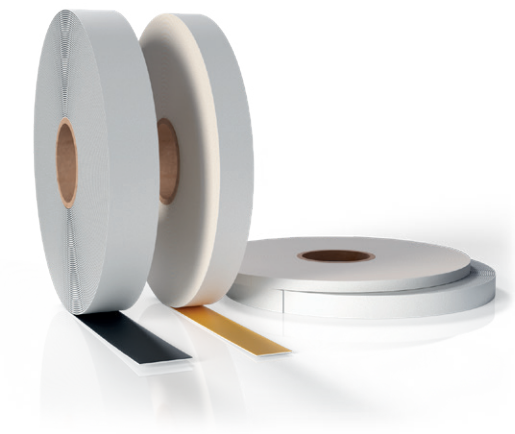
KERAFIX® Cooling-Strip F is a fire protection material with an ablative effect, containing substances which are subject to chemical change in an endothermic reaction when exposed to heat and absorb energy in the process. This mainly causes the release of combined water. It is this absorption of energy that reduces the transfer of heat to the side facing away from the fire more effectively than standard thermal insulation. In the end, a porous, inorganic carcass will remain, which also has a thermally insulating effect.

Fields of application

- Fire doors
- Windows and façades
- Door lockers, fittings, lock cases
- Door cores, door fillings
- Glazing in timber, steel and tubular frame doors
- Profile fillings in aluminum and steel profiles
- Safety cabinets
- Safes

Technical data

Verification	under review
Composition	halogen-free, ablative, phosphate-based fire protection material
Material structure	flexible roll material
Content of humidity / water of crystallisation [%]	26
Thermal conductivity [W/(m×K)]	0,278
Thermal conductivity reference temp. [°C]	10
Bulk density [kg/m³]	1300 to 1400
Start of reaction [°C]	approx. 100
Shore A-Hardness	96
Surface texture	smooth and soft
Consistency after exposure to fire	hard crust
Usage category / resistance to humidity	under review
Storage	Store in a cool and dry place. Design variant SK (self adhesive on one side) can be stored for up to 12 months.

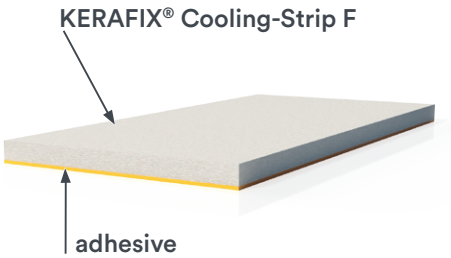


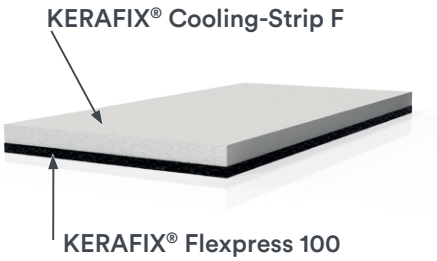
Design variants

Variant SK: self-adhesive on one side

Variant 2K: both cooling and intumescent – laminated on one side with Flexpress100

More design variants on request.





Variant SK (without additional lamination)	Variant 2K (laminated on one side)

Processing information

1. Surface preparation:
   - The surfaces to be treated must be dry, clean and free from grease and dust to ensure optimum adhesion. During installation in building elements, ensure a precise fit to utilise the full effectiveness of the material.
2. Installation and fixing:
   - KERAFIX® Cooling-Strip F can be cut into different shapes and sizes and fixed in place mechanically or using adhesive. For applications in fire-resistant doors and other fire protection constructions, permanent fixing is recommended. The SK variant is self-adhesive, which makes it easier to install and eliminates the need to apply additional glue.
3. Safety measures:
   - Observe the usual occupational health and safety measures, such as wearing protective gloves and safety glasses.

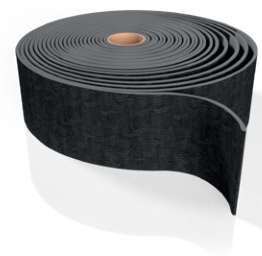
Features variant 2K (two components)

Both cooling and intumescent: KERAFIX Cooling-Strip F laminated on one side with the building material KERAFIX® Flexpress 100.

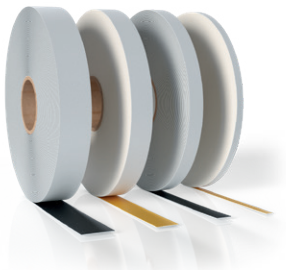
KERAFIX® Flexpress 100 is a flexible, intumescent material based on expandable graphite. When exposed to high temperature it expands with pressure. Intumescence in case of fire starts at approximately 140 °C. When reacting to heat, KERAFIX® Flexpress 100 forms an expanding body, increasing its volume up to 35 times.

For more information on KERAFIX® Flexpress 100.





KERAFIX® Flexpress 100



KERAFIX® Cooling-Strip F (Variant 2K)

Delivery forms

Standard lengths [mm]	Rolls of 25 meters or strips of 2 meters (special lengths are available on request)
Standard widths [mm]	10, 15, 20, 25, 30, 35 and 40 mm (special widths up to 320 mm are available on request)
Standard thicknesses [mm]	1, 2 and 3 mm (KERAFIX Cooling-Strip F)

Special formats are available on request.
The cut formats (lengths × widths) are manufactured on the basis of the general tolerance DIN ISO 2768-1-c.
The formed parts and stamped parts are manufactured on the basis of the general tolerance DIN 7715-5-p2.