AODISI

FIRE TECHNOLOGY

产品资料与销售咨询

PRODUCT DOCUMENTATION & SALES CONTACT

FLEXILODICE ® - Technical Data Sheet-en

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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

FLEXILODICE®



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

Product description

FLEXILODICE® is a flexible, intumescent fire protection coating based on graphite. When exposed to heat, it expands to form a microporous foam body. This layer prevents the passage of flames, smoke and hot gases. The self-adhesive version (SA) is even easier to fit thanks to a double-sided adhesive strip that allows for quick and precise installation. It is ideal for applications in fire protection doors, windows and pipe penetrations.

Properties

- Flexible, intumescent, graphite-based seal
- Self-adhesive version for easy installation
- Expands to between six and ten times its original size when exposed to heat
- Microporous layer prevents the passage of flames, smoke and hot gases
- Resistant to moisture and carbon dioxide
- Available in rolls or made-to-measure, easy-cut strips

Fields of application

- Fire protection doors and windows
- Pipe penetrations in fire protection walls
- Joints and openings in building partitions
- Seals in fire-resistant building elements and structures

Features

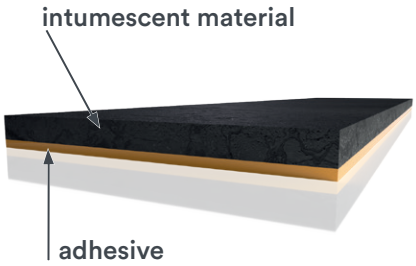
Self-adhesive version (SA) for easy installation, resistant to moisture.

Technical data

Verification	ETA-16/0299: 13 September 2016
Composition	Co-extruded graphite with thermoplastic surface and self-adhesive rear side
Material structure	Flexible seal
Temperature stability [°C]	Up to 550
Shore A hardness	80
Bulk density [kg/m³]	1.55
Area density [g/m²]	3400
Start of reaction [°C]	180
Expansion rate	Expands to 6 to 10 times its original size (30 minutes at 550 °C)
Intumescent layer	Solid, non-combustible microporous layer
Expansion pressure [N/mm²]	0.35–0.65 (at 300 °C)
Direction of expansion	Two-dimensional
Surface finish	Smooth surface
Storage	Store in a dry and well ventilated location at room temperature (20 °C ±5 °C) and with normal humidity (50–70%). Protect against UV radiation.
Shelf life	Max. 12 months from delivery date in original packaging and under the stated storage conditions



Design variants



Colour variants

Black

Processing information

1. Surface preparation:
   - The surface to which FLEXILODICE® SA is to be attached must be clean, dry and free from dust, grease and wax to ensure optimum adhesion.
   - Remove poorly applied layers of paint and ensure compatibility with existing coating.
2. Application:
   - FLEXILODICE® SA has a double-sided adhesive tape that makes it easier to attach. Remove the protective film just before fitting.
   - Hold firmly on the seal to ensure the adhesive strip adheres fully to the surface.
   - For aesthetically appealing and functional integration, we recommend inserting FLEXILODICE® SA into a groove with an appropriate cross section. The groove also helps to guide the expansion of the material in the event of fire.
3. Safety notes:
   - Wear suitable protective equipment, such as safety gloves, to avoid skin contact. Work in well ventilated areas.

Delivery forms

Length [m]	Width [mm]	Thickness [mm]
140	7	1.3
	25	
	30	
	15	1.4
	18	
	20	
	25	
	40	
	9.5	1.5
	12	
	37	
	50	
	52	
120	58	1.7
	22	1.8

Length [m]	Width [mm]	Thickness [mm]
100	8.2	1.9
	10	2
	12	
	15	
	18	
	20	
	24	
	25	
	28	
	30	
	35	
	37	
	38	
	40	
	48	
	50	
	57	
	60	
	77	

Length [m]	Width [mm]	Thickness [mm]
75	42.8	2.2
	20	2.5
	25	
	31.8	2.5
	25	2.7
	10	3
	20	
	25	
	28	
	32	
	40	
50	100	2
	22	4
	25	
	30	
	50	
2.1 – 3.0	22	6
	19.2	7.5

Tolerances [mm]

Thickness: +0.2 mm / -0.3 mm

Width +0.2 mm / -0.5 mm