AODISI

FIRE TECHNOLOGY

产品资料与销售咨询

PRODUCT DOCUMENTATION & SALES CONTACT

PALUSOL P & PM - 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

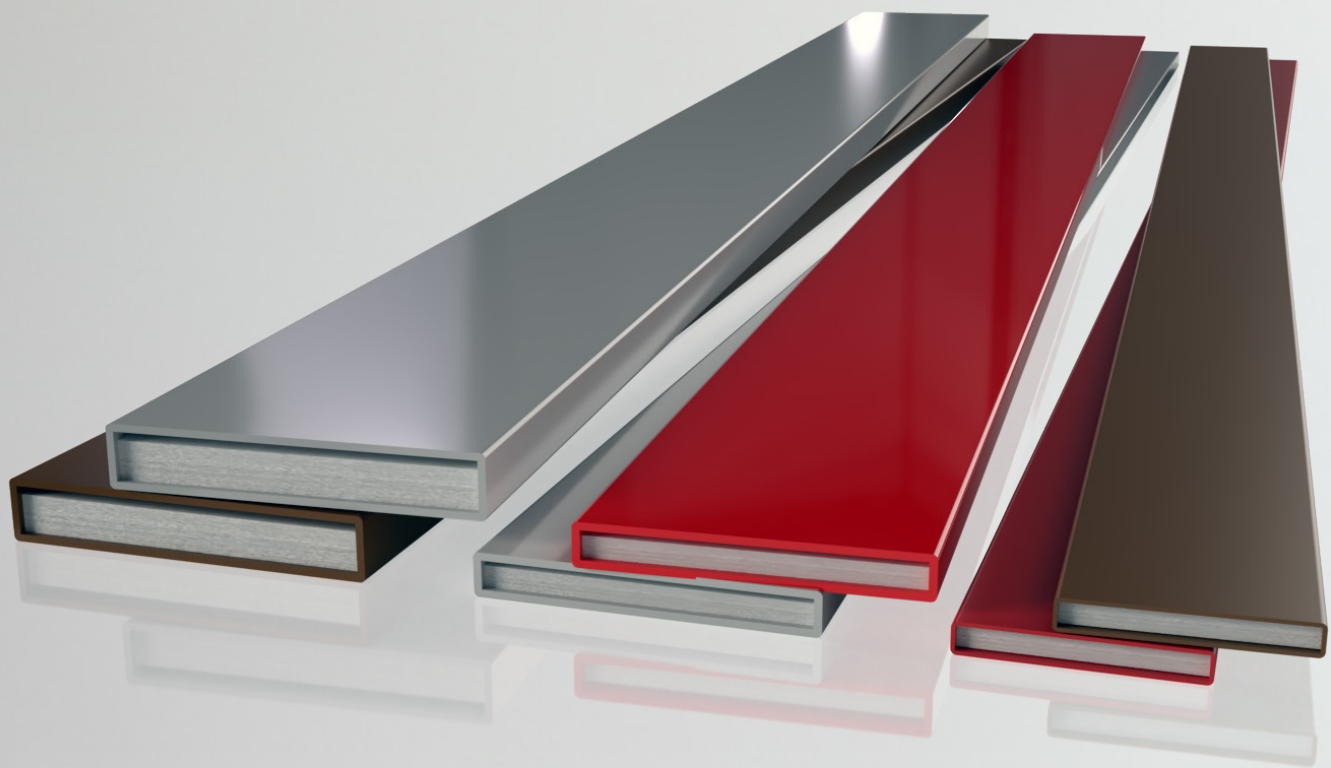
www.gmfireproof.com

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

PALUSOL® P and PM



kuhn odice

Tech.Rev.: 1.1

Ling. Rev.: 1.0

Product description

PALUSOL® P and PM are intumescent fire protection materials based on sodium silicate that expand to form a microporous, fire-resistant protective layer when exposed to heat.

The materials are provided with a special protective layer to protect them against moisture and environmental influences. They are ideal for use in fire-resistant constructions (such as doors), as they create a thermal barrier to prevent the passage of flames and smoke.

PALUSOL® P and PM are easy to work and install, resistant to moisture and provide long-term protection.

Reaction to fire

- Class A2-s1,d0 (DIN EN 13501-1)

Properties

- Strips made from sodium silicate that expand when exposed to heat
- Forms a microporous, non-combustible protective layer
- Resistant to moisture and climatic influences
- Flexible and easy to work (cutting and punching)
- Protects against flames, smoke and hot gases
- Available in a variety of formats, easy to install

Fields of application

- Fire protection doors and windows
- Sealing of joints and openings in fire protection constructions
- Protection of metal and wood components in fire-resistant building elements
- Used in fire-resistant partition walls and structural building elements
- Used in building structures to meet the fire protection requirements of EI 30 to EI 90

Features

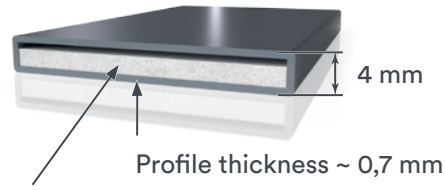
Expands at 100–120 °C, increasing to five times its volume.

Technical data

Verification	ETA-15/0345: 10 March 2021
Composition	Sodium silicate, glass fibre, epoxy resin coating
Material structure	Intumescent core material, glass fibre reinforcement, thermoplastic shell
Reaction to fire	Class A2-s1,d0 (DIN EN 13501-1)
Thermal conductivity [W/(m·K)]	0.8 (at 20 °C)
Pressure resistance [N/mm²]	0.9
Moisture content (mass percentage) [%]	25 to 40% of the weight
Area density [g/m²]	4300 – 7300
Start of reaction [°C]	100
Expansion rate [x times]	> 5
Intumescent layer	Rigid, non-combustible foam
Expansion pressure [N/mm²]	> 0.9
Direction of expansion	Perpendicular to the surface
Surface finish	Smooth, encapsulated in thermoplastic
Storage	In a dry, well ventilated area at 20 °C and with 50–70% humidity
Shelf life	For 40 years under normal usage conditions

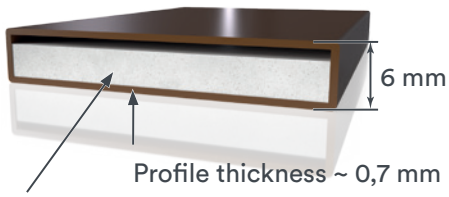
Design variants

PALUSOL® P



Thickness of PALUSOL® 100 – 1.9 mm

PALUSOL® P



Thickness of PALUSOL® 104 – 3.6 mm

PALUSOL® PM



Thickness of PALUSOL® 100 – 1.9 mm

Special variant

- Waterproof version available.
- PALUSOL® P and PM can be supplied with double-sided adhesive tape for easier installation.

Colour variants

Black, white, red, grey, brown

Processing information

1. Surface preparation:
   - The surface to be adhered to must be clean, dry and free from dust, grease or wax to make sure that the product adheres reliably and the seal functions.
2. Installation and fixing:
   - PALUSOL® P and PM seals are foaming seals that produce expansion pressure when exposed to heat. They should therefore be installed in a groove running along the edge of the frame or door leaf to control the expansion.
   - For easier installation, the seals can be fitted using a double-sided adhesive tape. Alternatively, they can also be attached mechanically. Make sure that the adhesive tape grips firmly to the contact surface to ensure optimal function.
   - The recommended application temperature is between +10 °C and +40 °C.
3. Safety notes:
   - Wear protective gloves when working with the product. Follow the general safety provisions for the workplace.

Delivery forms

PALUSOL® PM	PALUSOL® P (4 mm)	PALUSOL® P (6 mm)
10 × 2.8 mm	10 × 4 mm	10 × 6 mm
12 × 2.8 mm	15 × 4 mm	15 × 6 mm
15 × 2.8 mm	18 × 4 mm	20 × 6 mm
16 × 2.8 mm	20 × 4 mm	25 × 6 mm
18 × 2.8 mm	25 × 4 mm	30 × 6 mm
20 × 2.8 mm	30 × 4 mm	35 × 6 mm
25 × 2.8 mm	35 × 4 mm	38 × 6 mm
28 × 2.8 mm	38 × 4 mm	40 × 6 mm
30 × 2.8 mm	40 × 4 mm	45 × 6 mm
35 × 2.8 mm	45 × 4 mm	50 × 6 mm
38 × 2.8 mm	50 × 4 mm	55 × 6 mm
40 × 2.8 mm	55 × 4 mm	60 × 6 mm
50 × 2.8 mm	60 × 4 mm	-
60 × 2.8 mm	70 × 4 mm	-
-	80 × 4 mm	-

Tolerances [mm]

Thickness of PALUSOL® PM: 0 / +0.4 mm

Thickness of PALUSOL® P: ±0.2 mm

Width: ±0.25 mm

Length: 0/-1 mm