

Palusol[®]

Construction material classification A2-s 1, d0 according to DIN EN 13501-1, ETA-15/0345

Product Description

Palusol[®] is an intumescent material with excellent technical properties and an early start reaction at 100°C. The water bound in the material evaporates in case of fire, ensuring a cooling effect.

Application Areas

- Fire protection on doors from wood, steel or aluminium
- Special application areas of fire protection on doors eg box staple insulations
- Glazing facades
- Safety cabinets, control cabinets
- Double doors
- Thermal insulation elements
- Foreclosures
- Cable ducts
- Gas stop valves, pneumatic drives



Technical Data

| | |
|---------------------------------------|---|
| Composition | Foaming construction material based on water-containing sodium silicate |
| Material Structure | Firm panel material (flexible between 20°C and 40°C) |
| Raw density (kg/m ³) | 1580 (± 10% at 1.9mm) |
| Start of expansion °C | From ca 100 |
| Foaming rate | Palusol [®] 100/201: 5 – 8.5 times (550°C; 10 min; with load) |
| Foaming rate | Palusol [®] 104 5.5 – 9 times (550°C; 10 min; with load) |
| Direction | 2 dimensional |
| Forming inflatable body | Hard, ceramic material |
| Foaming pressure (N/mm ²) | Palusol [®] 100: 0.95 – 1.60, 104: 0.95 – 1.60, 201: 0.85 – 1.60 |
| Water content (%) | 25 – 40 |
| Thermal conductivity (W/mK) | 0.800 |

Availability

Without additional lamination

Variant E - completely encapsulated with PVC, Variant PT – Airtight sealed strips in synthetic profile

Variant T – airtight sealed strips in aluminium

Standard colours for encapsulating – red, black and white (other colours on request)

All variants – cut formats or formed parts according to DIN 7715-5 can be sold with adhesive

Sizes – 2100mm x 1100mm, thickness – 1.9 – 3.6mm

Panel material – 1.9 ± 0.4mm (type 100 with glass fibre mat, type 210 with wire mat), 3.6 ± 0.6mm (type 104 with glass fibre mat)

Special formats available on request. The product is manufactured on the basis of the general tolerance DIN ISO 2768-1. Please observe our information for processing and the safety data sheet. Store in a dry place between 20°C and +40°C.