

Palusol® is a BASF SE trademark.

Palusol®

Material of building material classification A2 (non flammable) according to DIN 4102-1
Classification A 2 (non flammable) according to DIN EN 13501-1

European technical approval ETA-15/0345

Product Description

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

Application Areas

- Fire protection doors from wood, steel or aluminium
- Special application areas of fire protection doors, e.g. box staples insulations
- Glazing, façades
- Safety cabinets, control cabinets
- Double floors
- Thermal insulation elements
- Partitions
- Cable ducts
- Gas stop valves, pneumatic drives

Technical Data

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|------------------------------|--|
| Composition: | Foaming construction material on the basis of water-containing sodium silicate |
| Material structure: | Firm panel material (flexible between 20 °C and 40 °C) |
| Raw density [kg/m³]: | 1580 [(± 10 %) at 1,9 mm] |
| Start of reaction [°C] | From ca. 100 |
| Foaming rate [x-times]: | Palusol® 100 and 104: 5 to 8,5 times (550 °C; 10 min; with load) |
| Direction of action: Forming | Two dimensional |
| inflatable body: Foaming | Hard, ceramic material |
| pressure [N/mm²]: Thermal | At least 0,85 |
| conductivity [W/mK]: | 0,800 |

Executed Variants

Palusol® without additional lamination

| | |
|-------------|---|
| Variant E: | Completely encapsulated with PVC-foil |
| Variant PT: | Airtight sealed strips intercalary in synthetic profile |
| Variant T: | Airtight sealed strips in aluminium-foil |

Standard colours for sheathing: Red, black and white; more colours upon request.

All variants – cut formats or formed parts (according to DIN 7715-5) may be equipped with various adhesive tapes.

Supplied Forms

| | |
|-----------------------------|---|
| Dimension: | 2100 mm x 1100 mm; |
| Material thickness: | 1,9 mm and 3,6 mm |
| Thicknesses panel material: | 1,9 mm ± 0,4 mm (type 100 with glass fibre mat), 3,6 mm ± 0,6 mm (type 104 with glass fibre mat) |

Special formats are 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.

Note

The information in this brochure is based on our knowledge and experience to date. This information does not release the user from carrying out independent tests and trials due to the various influences when processing and applying our product. It is not possible to derive a guarantee of certain properties or suitability of the product in a concrete application case based on our information. All the descriptions, drawings, photographs, data, conditions, weights etc. included may change without previous announcement; they do not constitute the contractually agreed property of the product. The recipient of our product is responsible to observe any trade mark rights and existing laws and regulations. Adhesive bonds are to be applied according to DIN 2304.

