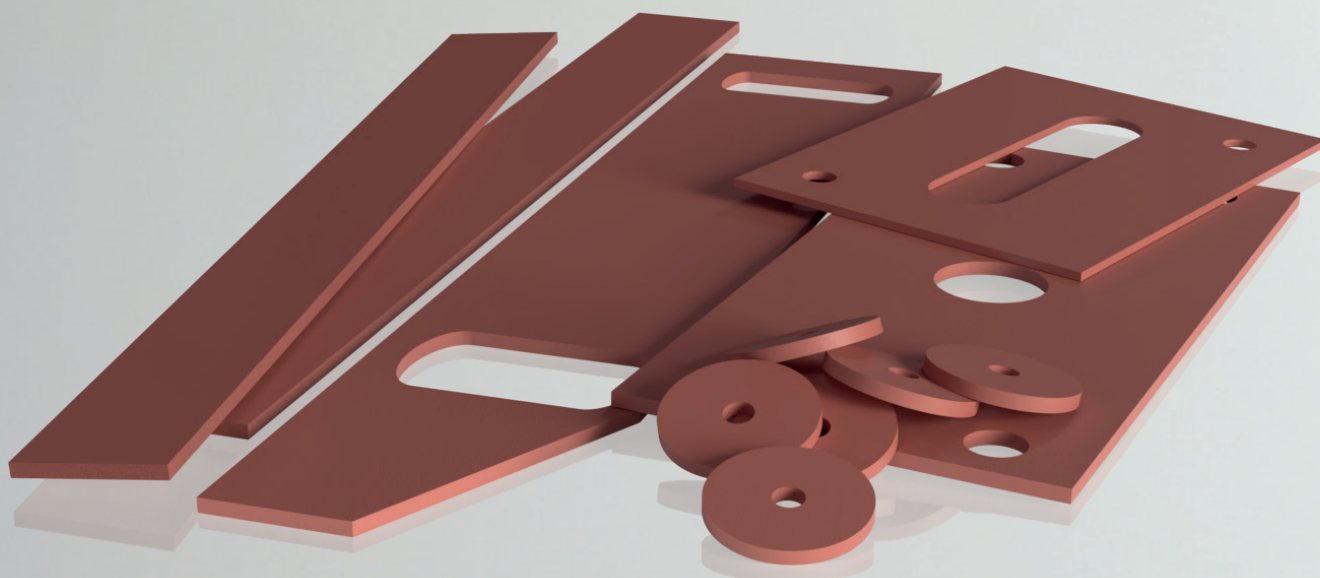


MORTON



Product description

Morton is a laminated composite made from glass wool and phenolic resin that has been developed to ensure a high degree of thermal break. It is available in boards or strips and is an excellent solution for applications that require thermal breaks, such as fire-resistant doors and walls. It is halogen-free and does not release any toxic gases.

Reaction to fire

EN45545-2 (railway) HL3 classification for requirements R1 and R7

Properties

- Composite made from glass wool and phenolic resin
- Fire resistance in accordance with NF P 92507 M1
- Halogen-free with no emission of toxic gases
- Excellent solution for thermal breaks
- Can withstand high temperatures
- Available as boards or strips

Fields of application

- Thermal breaks in fire protection doors
- Used in fire-resistant walls
- Sealing thermally sensitive constructions
- Fire protection in technical construction applications
- Insulation in industrial fire protection systems
- Used in multi-layer fire protection constructions

Technical data

| | |
|--|--|
| Composition | Laminated composite made from glass wool and phenolic resin |
| Flammability | BH1 (CEI 707) |
| Smoke development class | F1 (NF F 16101) |
| Flame resistance | V0 (CEI 695) |
| Temperature stability [°C] | 130 (CEI 216) |
| Thermal conductivity [W/(m·K)] | 0.3 (at 20 °C) |
| Tensile strength [N/mm²] | 150 |
| Bending resistance [N/mm²] | 200 |
| Flexural modulus (ISO 178) [MPa] | 16,000 |
| Pressure resistance [N/mm²] | 400 |
| Impact strength (CEI 893-2) [kJ/m²] | 50 |
| Shear break strength (CEI 893-2) [N/mm²] | 7 |
| Energy absorption [kJ/m²] | 50 (impact test: CEI 893-2) |
| Bulk density [kg/m³] | 1820 |
| Water absorption (ISO 62) | 2% (with thickness of 5 mm) |
| Dielectric strength [kV/mm] | 1.5 kV/mm (transversal, with thickness of 3 mm, CEI 243) |
| Longitudinal perforation stress [kV] | 20 (CEI 243) |
| Punch-through stress [kV] | 20 (CEI 243) |
| Permittivity | 5 (at 50 Hz, CEI 893-2) |
| Electrical energy loss factor | At 50 Hz: 0.01 (CEI 893-2) |
| Insulation resistance | 10 ⁶ Ω (CEI 631) |
| Tracking resistance | 100 V (CEI 112) |
| 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 | SA: max. 12 months from delivery date in original packaging and under the stated storage conditions |

Design variants

A self-adhesive version (SA) that allows for easy installation is available.

Colour

Dark brown

Processing information

1. Surface preparation:

- The surfaces to be worked must be clean and dry to ensure optimal adhesion.

2. Processing and adaptation:

- MORTON boards and strips can easily be cut to custom dimensions. The tolerances for the width and length are ± 0.5 mm.

3. Installation and fixing:

- MORTON can be fitted using adhesive or through mechanical attachment.

4. Safety measures:

- Follow standard measures such as wearing protective gloves and avoiding dust development. Further safety notes are listed in the safety data sheet.

Delivery forms

| | |
|--------------------------------|-------------------------------|
| Dimensions (L × W) [mm] | 3030 × 1220 (standard format) |
|--------------------------------|-------------------------------|

| | |
|----------------------------------|----------------------------|
| Standard thicknesses [mm] | 2 to 6 (others on request) |
|----------------------------------|----------------------------|

MORTON can be delivered in cut strips.

The strip lengths are subject to a tolerance of $\pm 5\%$. The cut width and length are subject to a tolerance of ± 0.5 mm.

Tolerances [mm]

Width and length tolerance: $\pm 5\%$

Gross length tolerance: $\pm 5\%$

Cut tolerance, width and length: ± 0.5

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