AODISI

FIRE TECHNOLOGY

产品资料与销售咨询

PRODUCT DOCUMENTATION & SALES CONTACT

MORTON ® - Technical Data Sheet-en

澳迪斯防火科技（廊坊）有限公司

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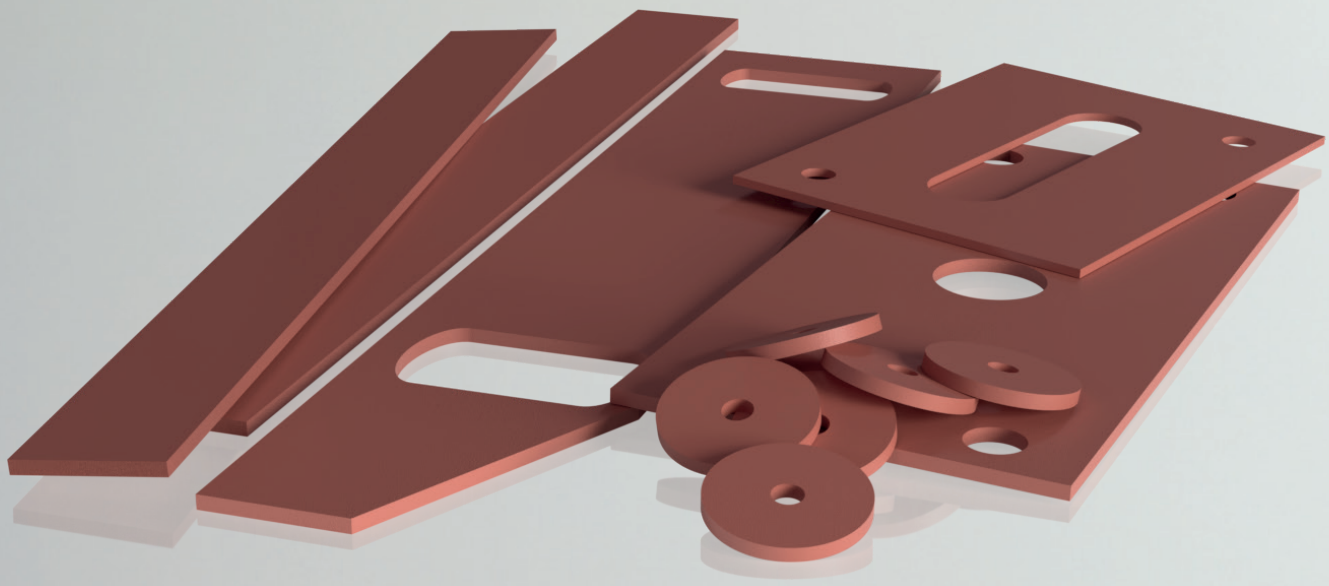
www.gmfireproof.com

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

MORTON



kuhnodice

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

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 ±5%. The cut width and length are subject to a tolerance of ±0.5 mm.

Tolerances [mm]

Width and length tolerance: ±5%

Gross length tolerance: ±5%

Cut tolerance, width and length: ±0.5