

POWER-TEK FM 080/ALU



January 2020

APPLICATION RANGE



DESCRIPTION

Power-teK FM is a non-combustible mineral wool mat which is used for compacted or multi-layer insulation.

TECHNICAL DATA

| | |
|--------------------------------------|---|
| Maximum service temperature | 640 °C (EN 14706) |
| Service temperature aluminium facing | ≤ 80 °C |
| Reaction to fire | A1 (EN 13501-1) |
| Density | ca. 80 kg/m ³ (EN 1602) |
| Declaration of performance | http://dopki.com/T4305EP |

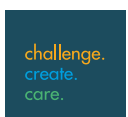
| Description | Sign | Description/data | Unit | Norm |
|--|----------------|---|----------------------|--------------|
| Thermal conductivity depending on temperature | θ | 50 100 200 300 400 500 600 | °C | EN 12667 |
| | λ | 0.040 0.046 0.062 0.084 0.112 0.146 0.190 | W/(mK) | |
| Water soluble chloride ions (AS quality) | - | ≤ 10 | ppm | EN 13468 |
| Water absorption | W _p | ≤ 1 | kg/m ² | EN 1609 |
| Water vapour diffusion resistance | μ | 1 | - | EN 14303 |
| Water vapour diffusion air layer thickness (ALU) | s _d | ≥ 200 | m | EN 12086 |
| Silicone free | - | No emissions by lacquering disturbing substances | - | - |
| Melting point of fibres | θ | ≥ 1000 | °C | DIN 4102-17 |
| Longitudinal air flow resistance | r | ≥ 40 | kPa*s/m ² | EN 29053 |
| Specific heat capacity | c _p | 1030 | J/(kgK) | EN ISO 10456 |
| Designation code | - | MW-EN14303-T2-ST(+)-640-WS1-CL10 | - | EN 14303 |
| | | MW-EN14303-T2-ST(+)-640-WS1-MV2-CL10(ALU) | | |

Declared material properties are obtained in the production process and ensured by the factory production control in accordance with the European Standard at the time of manufacture. Observing storage and handling guidelines will maintain performance within published tolerances.

CERTIFICATE



0575



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ADDITIONAL INFORMATION

Application

Filling material for mattresses, Multi-layer pipe insulation, Chimneys

The product is recommended for thermal, fire and sound insulation of the defined applications within technical insulation.

Handling

Knauf Insulation products are easy to handle and easy to install. They are supplied in suitable packaging materials to balance necessary transport protection with sustainable recycling options. Packaging is not designed for long-term storage or exposure to harsh weather conditions. Further product information is mentioned on every pack.

storage

For longer term protection on site it is recommended to store the product indoors or alternatively under a roof and without direct contact to the ground (keep palletised).

Remark

Also available in ALU= aluminium.

Standard formats*

| | |
|-----------|----------------|
| Thickness | 40 mm - 120 mm |
| Width | 500/1000 mm |
| Length | 2000 - 5500 mm |

* Other dimensions on request.



Knauf Insulation mineral wool products with ECOSE® Technology benefit from a formaldehyde-free binder made from rapidly renewable bio-based materials instead of petroleum-based chemicals. The technology has been developed for Knauf Insulation's mineral wool products, enhancing their environmental credentials without affecting the thermal, acoustic or fire performance. Insulation products made with ECOSE® Technology contain no dye or artificial colours – the colour is completely natural.

ISO STANDARDS

Knauf Insulation products are produced according to four of the most important International Management Standards for sustainability ISO 9001 (Quality Management), ISO 14001 (Environmental Management), ISO 50001 (Energy Management) and OHSAS 18001 (Health and Safety Management), all certified by Tüv Nord.

Knauf Insulation d.o.o

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