KNAUFINSULATION Technical Solutions

www.knaufinsulation-ts.com

THERMO-TEK FM 040 - 060

March 2022

APPLICATION RANGE

DESCRIPTION

Thermo-teK FM 040 – 060 is an unfaced, durable and resistant rock mineral wool roll, used as universal solution for lining or multi-layer insulations.

It is produced with ECOSE® Technology, a patented binder system, based entirely on renewable raw materials.

TECHNICAL DATA

Reaction to fire		A1 (EN 13501-1)		
Density (EN 1602)	kg/m³	ca. 40	ca. 50	ca. 60
	product	FM 040	FM 050	FM 060
Declaration of performance*		http://dopki.com/R4305JP for FM 040 http://dopki.com/R4305LP for FM 050, 060		

* for detailed information on DoP please check the product label

Description	Sign	Description/data			Unit	Norm
Thermal conductivity depending on temperature (10°C) and density	ρ	40	50	60	kg/m³	EN 12667
	λ	0.037	0,035	0,035	W/(mK)	
Water soluble chloride ions (AS quality)	-	≤ 10			ppm	EN 13468
Water absorption	W_P	≤ 1			kg/m²	EN 1609
Water vapour diffusion resistance	μ	1			-	EN 14303
Silicone free	-	No emissions by lacquering disturbing substances			-	-
Melting point of fibres	ϑ	≥ 1000			°C	DIN 4102-17
Longitudinal air flow resistance	ρ	40	50	60	kg/m³	EN 29053
	r	≥ 5	≥ 10	≥ 15	kPa*s/m²	
Designation code	-	MW-EN13162-T2-WS-AF5	MW-EN13162-T2-WS-AF10	MW-EN13162-T2-WS-AF15	-	EN 13162
Specific heat capacity	c_p	1030			J/(kgK)	EN ISO 10456

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

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ADDITIONAL INFORMATION

Application

The product is recommended for thermal, fire and sound insulation of defined Thermo-teK applications within technical insulation where : higher mechanical resistance is required , lining or multi-layer insulation is needed.

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 we recommend storing the product either indoors or alternatively under a roof cover and off the ground. If covered storage is not available, products can be stored outside (open-air-storage) if placed off the ground (keep palletized) and covered with plastic hood (foil), for a maximum of up to 6 months from the date of delivery. Outdoor storage is not recommended during particularly humid months with large fluctuations in temperature.

Standard formats*

Thickness	30 mm - 120 mm
Width	500 /1000 mm
Lengtht	2000 - 6000 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 ISO 45001 (Health and Safety Management), all certified by Tüv Nord.

Knauf Insulation d.o.o

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