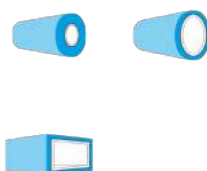


POWER-TEK LM 450 ALU (LMF ALUR)



January 2018

APPLICATION RANGE



DESCRIPTION

Power-teK LM 450 ALU is a mat with formaldehyde-free binder consisting of individual mineral wool strips (lamella) that are bonded on the one side to a tear-resistant, glass mesh reinforced aluminium foil.

PERFORMANCE

Max. service temperature	450 °C (EN 14706)
Service temperature facing	80 °C
Reaction to fire	A1 (EN 13501-1)
Apparent density	40 kg/m ³ (EN 1602)
Declaration of performance	http://dopki.com/T4305HPCPR

Description	Sign	Description/data									Unit	Standard
Thermal conductivity depending on temperature	θ	50	100	150	200	250	300	400	450		°C	DIN EN 12667
	λ	0,044	0,054	0,067	0,083	0,104	0,130	0,202	0,250		W/(mK)	
AS quality	-	≤ 10									ppm	EN 13468
Total water absorption	W _p	≤ 1									kg/m ²	EN 1609
Water vapour diffusion equivalent air layer thickness	S _d	100									mm	EN 12086
Silicone free	-	No emissions by lacquering disturbing substances									-	-
Melting point of fibres	-	≥ 1000									°C	DIN 4102-17
Specific heat capacity	c _p	1030									J/(kgK)	EN ISO 10456
AGI designation code	-	10.02.02.99.04									-	AGI Q132
Designation code	-	MW-EN14303-T4-ST(+)-450-WS1-MV1-CL10									-	EN 14303

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.

CERTIFICATES



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ADDITIONAL INFORMATION

Application

The product is recommended for thermal, fire and sound insulation of the defined applications within technical insulation.
Pipe lines, Valves & flanges, Heat storage tanks, Chimneys

Handling

Our products are easy to handle and easy to install. It is supplied packaged in cardboard boxes or wrapped in foil (depending on the product) which are designed for short term protection only. Further product information is mentioned on every pack.

Storage

For longer term protection on site, it is recommended to store the product either indoors or under a roof and off the ground.

Standard formats*

Thickness	20mm-140mm
Width	500 mm
Length	1.000mm-10.000mm

* 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.

Knauf Insulation d.o.o

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