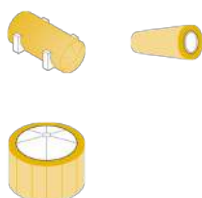


# POWER-TEK LM 700 ALU



July 2018

## APPLICATION RANGE



## DESCRIPTION

Power-teK LM is a mat which does not require a supporting structure and which is comprised of individual mineral wool strips (lamella) that are bonded on one side to a tear-resistant, glass mesh reinforced aluminium foil.

## PERFORMANCE

Max. service temperature	700 °C (EN 14706)
Service temperature facing	80 °C
Reaction to fire	A1 (EN 13501-1)
Apparent density	95 kg/m <sup>3</sup> (EN 1602)
Declaration of performance	<a href="http://dopki.com/T4305VPCPR">http://dopki.com/T4305VPCPR</a>

Description	Sign	Description/data									Unit	Standard
Thermal conductivity depending on temperature	9	50	100	200	300	400	500	600	700		°C	DIN EN 12667
	λ	0,044	0,050	0,068	0,096	0,134	0,182	0,238	0,304		W/(mK)	
AS quality	-	≤ 10									ppm	EN 13468
Total water absorption	W <sub>p</sub>	≤ 1									kg/m <sup>2</sup>	EN 1609
Water vapour diffusion equivalent air layer thickness	S <sub>d</sub>	100									mm	EN 12086
Silicone free	-	No emissions by lacquering disturbing substances									-	-
Melting point of fibres	-	≥ 1000									°C	DIN 4102-17
Compressive strength	σ <sub>m</sub>	≥ 10									kPa	EN 826
Specific heat capacity	C <sub>p</sub>	1030									J/(kgK)	EN ISO 10456
Designation code	-	MW-EN14303-T4-ST(+)-700-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



# POWER-TEK LM 700 ALU



July 2018

## ADDITIONAL INFORMATION

### Application

The product is recommended for thermal, fire and sound insulation of the defined applications within technical insulation.  
District heating lines, Containers, Large containers, Industrial plants, Pipe lines, Tank systems, Heat storage tanks

### 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

Varaždinska 140  
42220 Novi Marof  
Croatia

All rights reserved, including those of photomechanical reproduction and storage in electronic media. Extreme caution was observed when putting together and processing the information, texts and illustrations in this document. Nevertheless, errors cannot quite be ruled out. The publisher and editors cannot assume legal responsibility or any liability whatever for incorrect information and the consequences thereof. The publisher and editors will be grateful for improvement suggestions and details of possible errors pointed out.