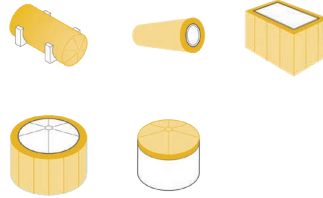


## POWER-TEK LM 550 ALU



January 2020

### APPLICATION RANGE



### DESCRIPTION

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

### TECHNICAL DATA

Maximum service temperature	550 °C (EN 14706)
Service temperature aluminium facing	≤ 80 °C
Reaction to fire	A1 (EN 13501-1)
Density	ca. 60 kg/m <sup>3</sup> (EN 1602)
Declaration of performance	<a href="http://dopki.com/T4305IP">http://dopki.com/T4305IP</a>

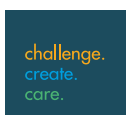
Description	Sign	Description/data								Unit	Norm
Thermal conductivity depending on temperature	ϑ	50	100	200	300	400	500	550	°C	EN 12667	
	λ	0.043	0.052	0.076	0.109	0.154	0.211	0.256	W/(mK)		
Water soluble chloride ions (AS quality)	-	≤ 10								ppm	EN 13468
Water absorption	W <sub>p</sub>	≤ 1								kg/m <sup>2</sup>	EN 1609
Water vapour diffusion equivalent air layer thickness ALU	s <sub>d</sub>	≥ 200								m	EN 12086
Silicone free	-	No emissions by lacquering disturbing substances								-	-
Melting point of fibres	ϑ	≥ 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
Insulation material code	-	10.03.02.99.06								-	AGI Q132
Designation code	-	MW-EN14303-T4-ST(+ )550-CS(10)10-WS1-MV2-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.

### CERTIFICATE



0575





## ADDITIONAL INFORMATION

### Application

District heating lines, Containers, Industrial plants, Pipe lines, Heat storage tanks

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).

### Standard formats\*

Thickness	30 - 120 mm
Width	500/1000 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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