

POWER-TEK BD 450/ALU



December 2019

APPLICATION RANGE



DESCRIPTION

Power-teK BD is a mineral wool insulation board which is optimised for high temperatures, with excellent thermal conductivity values. Available also with aluminium facing.

TECHNICAL DATA

Maximum service temperature	450 °C (EN 14706)
Service temperature aluminium facing	≤ 80 °C
Reaction to fire	A1 (EN 13501-1)
Density	ca. 50 kg/m ³ (EN 1602)
Declaration of performance	http://dopki.com/T4305LP

Description	Sign	Description/data	Unit	Norm
Thermal conductivity depending on temperature	θ	10 50 100 200 300 400 450	°C	EN 12667
	λ	0.037 0.041 0.048 0.071 0.108 0.157 0.186	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 equivalent 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	≥ 10	kPa*s/m ²	EN 29053
Specific heat capacity	c _p	1030	J/(kgK)	EN ISO 10456
Designation code	-	MW-EN14303-T5-ST(+)-450-WS1-CL10 MW-EN14303-T5-ST(+)-450-WS1-MV2-CL10 (ALU)	-	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





ADDITIONAL INFORMATION

Application

Tank systems.

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

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.

Remark

Also available with aluminium facing.

Standard dimensions:

Thickness	50 - 140 mm
Width	625 mm
Length	1200 mm

* Other dimensions on request (maximal possible thickness 250 mm).



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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