

## POWER-TEK BD 450 (TWB 035)



April 2018

### APPLICATION RANGE



### DESCRIPTION

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

### PERFORMANCE

Max. service temperature	450 °C (EN 14706)
Reaction to fire	A1 (EN 13501-1)
Apparent density	50 kg/m <sup>3</sup> (EN 1602)
Declaration of performance	<a href="http://dopki.com/T43051PCPR">http://dopki.com/T43051PCPR</a>

Description	Sign	Description/data										Unit	Standard
		10	50	100	150	200	250	300	400	450			
Thermal conductivity depending on temperature	θ											°C	DIN EN 12667
	λ	0,035	0,041	0,048	0,058	0,072	0,088	0,108	0,157	0,186	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 resistance	μ	1										-	EN 14303
Silicone free	-	No emissions by lacquering disturbing substances										-	-
Melting point of fibres	-	≥ 1000										°C	DIN 4102-17
Longitudinal air flow resistance	r	≥ 15										kPa*s/m <sup>2</sup>	-
Specific heat capacity	C <sub>p</sub>	1030										J/(kgK)	EN ISO 10456
Designation code	-	MW-EN 14303-T5-ST(+)-450-WS1-CL10										-	EN14303

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 BD 450



April 2018

### ADDITIONAL INFORMATION

#### Application

The product is recommended for thermal, fire and sound insulation of the defined applications within technical insulation. Containers, Boilers and tanks, Machine insulation, Sound insulations, Thermally resistant constructions, Drying systems

#### 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.

#### Note

Also available with aluminium facing.

#### Standard formats\*

Thickness	50mm-140mm
Width	600 mm
Length	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.

#### 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.