KNAUFINSULATION Technical Solutions

www.ki-ts.com

POWER-TEK BD 700*

POWER TEK

July 2020

*data specific to UK manufactured product only



APPLICATION RANGE



DESCRIPTION

Power-teK BD 700 is a non-combustible Mineral Wool slab, designed to resist high temperatures and provide thermal and acoustic performance, for use in applications up to 700 °C.

TECHNICAL DATA

Max. service temperature	700 °C (EN 14706)
Reaction to fire	A1 (EN 13501-1)
Nominal density	140 kg/m³ (EN 1602)
Declaration of performance*	http://dopki.com/T4208CP

*for detailed information on DoP please check the product label

Description	Sign	Description/data								Unit	Standard
Thermal conductivity depending on temperature	ϑ	50	100	200	300	400	500	600	700	°C	EN 12667
	λ	0.041	0.045	0.059	0.075	0.095	0.119	0.147	0.178	W/(mK)	
Water soluble chloride ions (AS quality)	–	≤ 10								ppm	EN 13468
Total water absorption	W_p	≤ 1.0								kg/m²	EN 1609
Water vapour diffusion resistance	μ	1								k Pa·s/m²	EN 12086
Silicone free	–	Produced without addition of silicone oil								–	–
Melting point of fibres	ϑ	≥ 1000								°C	DIN 4102-17
Longitudinal air flow resistance	r	≥ 30,000								–	EN 29053
Specific heat capacity	c_p	1030								J/(kgK)	EN ISO 10456
Designation code	–	MW-14303-TS-ST(+)700-WS1								–	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.
Boilers and tanks, Machine insulation, Containers, Chimneys, Sound insulations, Thermally resistant constructions, Drying systems, Air handling units, Industrial finishing, Vessels

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 we recommend storing the product either indoors or alternatively under a roof cover and off the ground. If covered storage is not available, products can be stored outside (open-air-storage) if placed off the ground (keep palletized) and covered with plastic hood (foil), for a maximum of up to 6 months from the date of delivery. Outdoor storage is not recommended during particularly humid months with large fluctuations in temperature.

Note

Also available with aluminium facing.

Standard formats*

Thickness	30, 50, 75,100 mm
Width	600 mm
Length	1200 mm

*** Other dimensions on request.**

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 ISO 45001 (Health and Safety Management), all certified by Tüv Nord.

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