

POWER-TEK RL 220



August 2023

with **ECOSE®** TECHNOLOGY



DESCRIPTION

Power-teK RL 220 is a lightweight glass mineral wool mat (delivered in rolls). With optimised thicknesses achieving up to 300 mm per layer, Power-teK RL 220 delivers a cost-effective solution using a minimised number of layers. It is used for insulation of heat storage tanks and tank walls with limited demand for service temperatures, but requiring strong thermal performance throughout thicker layers of insulation. This kind of insulation is usually used outdoors underneath additional cladding (weather protection).

Knauf Insulation Power-teK RL 220 is produced with **ECOSE® Technology**, a patented binder system, based entirely on renewable raw materials.

PERFORMANCE

Max. service temperature	220 °C (EN ISO 18097)
Reaction to fire	A1 (EN 13501-1)
Density	ca. 22 kg/m³ (ISO 29470)
Declaration of performance*	http://dopki.com/T4222MPCPR

* for detailed information on DoP please check the product label

APPLICATION

Defined Power-teK applications:

- Tank walls & heat storage

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

- where a lightweight insulation solution is required
- strong thermal performance is needed
- fast installation is required

BENEFITS

- ✓ Lightweight solution
- ✓ Thickness up to 300 mm
- ✓ Optimised logistics (compressed packaging)
- ✓ Easy and fast handling
- ✓ Highly flexible
- ✓ ECOSE® Technology



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.

CERTIFICATES



Declare.

challenge.
create.
care.

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SPECIFICATIONS

Description	Sign	Description/data				Unit	Standard
Thermal conductivity depending on temperature	ϑ	10	50	100	150	°C	EN 12667
	λ	0,034	0,042	0,054	0,067	W/(mK)	
Water absorption	W_p	$\leq 1,0$				kg/m ²	EN ISO 29767
Water vapour diffusion resistance factor	μ	1				-	EN 14303
Silicone free	-	No emissions of lacquering disturbing substances				-	-
Longitudinal air flow resistance	c_p	≥ 5				kPa*s/m ²	EN 29053
Designation code	-	MW- EN 14303-T2-ST(+)-220-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.

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.

STANDARD FORMATS*

Thickness	80 – 300 mm
Width	1200 mm
Length	2400 – 6000 mm

*Other dimensions on request.



Knauf Insulation mineral wool products made 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, spol. s.r.o.

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