

## POWER-TEK LW CRY



May 2023



with **ECOSE**<sup>®</sup>  
TECHNOLOGY

### DESCRIPTION

Power-teK LW CRY is a loose rock mineral wool without binder for **cryogenic applications**.

It has an especially low organic content (< 0.3 weight%), is manufactured in compliance with the requirements of the AGI worksheet Q 118 for insulation of air separation plant and fulfils the requirements of Factory Standard 152-1 of Linde AG.

### PERFORMANCE

Reaction to fire	A1 (EN 13501-1)
Declaration of performance*	<a href="http://dopki.com/T4309WPCPR">http://dopki.com/T4309WPCPR</a>

\* for detailed information on DoP please check the product label

### APPLICATION

Defined applications:

- Cryogenic applications

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

- **a solution for filling cavities (confined spaces) in cryogenic applications is needed**
- **a solution for insulating irregular shapes in cryogenic applications is required**

### BENEFITS

- ✓ Easy to fill and reach confined spaces, irregular shapes
- ✓ Extremely good performing at low temperatures
- ✓ No binder
- ✓ Odourless
- ✓ Flexible



### 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:



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## SPECIFICATIONS

Description	Sign	Description/data								Unit	Standard
Thermal conductivity depending on temperature	$\vartheta$	-180	-100	-50	0	50	200	400	600	°C	EN 12667
	$\lambda$	0,014	0,021	0,026	0,033	0,041	0,120	0,156	0,205	W/(mK)	
Water soluble chloride ions (AS quality)	-	≤ 10								ppm	EN ISO 12624
Water absorption	$W_p$	≤ 1,0								kg/m <sup>2</sup>	EN ISO 29767
Melting point of fibres	$\vartheta$	≥ 1000								°C	DIN 4102-17
Specific heat capacity	$c_p$	1030								J/(kgK)	EN ISO 10456

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\*

kg / bag*	10
Bags / pallet	35

\*one foil bag, other packaging sizes 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 d.o.o.

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