

# THERMO-TEK PS CLD ALS



October 2023

with **ECOSE®**  
TECHNOLOGY



## DESCRIPTION

Thermo-Tek PS CLD ALS is a circular wound Rock Mineral Wool pipe section, laminated with **extra strong fibre glass reinforced, tear resistant aluminium foil, which acts as a water vapour barrier and provides extra mechanical protection.** The 1200 mm long pipe section is slit on one side for easier installation. A self-adhesive seal along the longitudinal slit eases the mounting process. Product provides premium thermal conductivity, high compressive strength, excellent fire resistance and minimum product tolerances of the inner and outer diameters thanks to the use of innovative production technologies.

Knauf Insulation Thermo-Tek PS CLD ALS is produced with **ECOSE® Technology**, a patented binder system, based entirely on renewable raw materials.

## PERFORMANCE

Max. service temperature	250 °C (EN ISO 18096)
Service temperature ALU facing	≤ 80 °C
Reaction to fire	A2L-s1, d0 OD ≤ 300 mm A2-s1, d0 - OD > 300mm (EN 13501-1)
Density	ca. 100-120 kg/m <sup>3</sup> (EN ISO 18098))
Declaration of performance*	<a href="http://dopki.com/T4305NPCPR">http://dopki.com/T4305NPCPR</a>

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

## APPLICATION

### • Pipe lines.

The product is recommended for thermal insulation of steel, stainless steel, copper and plastic pipes in building services systems: warm/hot water lines, lines for chilled water and pipework with alternating temperatures.

- Drinking water pipes
- Cooling water pipes
- Alternating temperature systems
- Drainage lines (rain and snow)

## BENEFITS

- ✓ Non combustible Rock Mineral Wool A2Ls1, d0
- ✓ Extra tough and water vapour tight alu-facing with glass scrim reinforcing and therefore highly protective regarding possible damage
- ✓ Application range from 0 °C to + 250 °C
- ✓ Simple and fast processing
- ✓ Time and cost savings
- ✓ Space saving
- ✓ Low embedded CO<sub>2</sub>
- ✓ 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



# THERMO-TEK PS CLD ALS



October 2023

## SPECIFICATIONS

Description	Sign	Description/data				Unit	Standard
Thermal conductivity depending on temperature	$\vartheta$	10	50	100	150	°C	EN 12667
	$\lambda$	0,033	0,037	0,044	0,052	W/(mK)	
Water soluble chloride ions (AS quality)	-	≤ 10				ppm	EN ISO 12624
Water absorption	$W_p$	≤ 1				kg/m <sup>2</sup>	EN ISO 12623
Water vapour diffusion equivalent air layer thickness ALU	$S_d$	≥ 1500				m	EN 13469
Silicone free	-	No emissions of lacquering disturbing substances				-	-
Melting point of fibres	$\vartheta$	≥ 1000				°C	DIN 4102-17
Specific heat capacity	$c_p$	1030				J/(kgK)	EN ISO 10456
Designation code	-	MW-EN14303-T8-ST(+)-250-WS1-MV2-CL10 (OD < 150 mm)				-	EN 14303
		MW-EN14303-T9-ST(+)-250-WS1-MV2-CL10 (OD ≥ 150 mm)					

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	20 - 100 mm
Internal diameter	15 - 324 mm
Length	1200 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 d.o.o.

Varaždinska 140, 42220 Novi Marof, Croatia | E-mail: [ts@knaufinsulation.com](mailto:ts@knaufinsulation.com)

All rights reserved, including those of photomechanical reproduction and storage in electronic media. Commercial use of the processes and work presented in this document is not permitted. Extreme caution was taken in assembling the information, texts and illustrations in this document. Nevertheless, errors cannot be entirely ruled out. The publisher and editors assume no legal responsibility or any liability whatsoever for any incorrect information or any consequences thereof. The publisher and editors are grateful for any suggestions for improvement as well as the identification of any errors.

