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THERMO-TEK PC 080/090 ALU

November 2023

DESCRIPTION

Thermo-teK PC 080/090 ALU is a cut from block rock mineral wool pipe section, laminated with fibre glass reinforced, tear-resistant aluminium foil, which acts as a water vapour barrier. It has density 80 or 90 kg/m^3 and is **specially designed to be used on pipe lines, where DN > 300 mm.**

Knauf Insulation Thermo-teK PC 080/090 ALU is produced with **ECOSE® Technology**, a patented binder system, based entirely on renewable raw materials.

PERFORMANCE

Max. service temperature	600 °C (EN ISO 18096)
Service temperature ALU facing	≤ 80 °C
Reaction to fire	$A2_L$ -s1, d0 - D0≤ 300mm; A2-s1, d0 - D0 > 300mm (EN 13501-1)
Apparent density	ca. 80 or 90 kg/m^3 (EN ISO 18098)
Declaration of performance *	http://dopki.com/T4305RPCPR

* for detailed information on DoP please check the product label

APPLICATION

Defined Thermo-teK applications:

- Pipe insulation – heating, water supply

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

- **where special sizes of pipe sections are needed**
- **for pipe lines, where DN > 300 mm**

BENEFITS

- ✔ Suitable for special sizes of pipes
- ✔ Suitable for pipe lines with bigger diameters
- ✔ High maximum service temperature
- ✔ Multilayer installations possible
- ✔ Easy and fast installation
- ✔ Adapts to the unevenness of pipes
- ✔ 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

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SPECIFICATIONS

Description	Sign	Description/data					Unit	Standard
Thermal conductivity depending on temperature	ϑ	50	100	150	200	300	°C	EN ISO 8497
	λ	0,041	0,050	0,061	0,076	0,111	W/(mK)	
Water soluble chloride ions (AS quality)	–	≤ 10					ppm	EN ISO 12624
Water absorption	W_P	≤ 1					kg/m²	EN ISO 12623
Water vapour diffusion equivalent air layer thickness ALU	S_d	≥ 200					m	EN ISO 12629
Silicone free	–	No emissions of lacquering disturbing substances					–	–
Melting point of fibres	ϑ	≥ 1000					°C	DIN 4102-17
Specific heat capacity	c_p	1030					J/(kgK)	EN ISO 10456
Designation code	–	MW-EN14303-T8-ST(+)600-WS1-MV2-CL10 (OD < 150 mm) MW-EN14303-T9-ST(+)600-WS1-MV2-CL10 (OD ≥ 150 mm)					–	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	20 -120 mm
Length	1000 mm

*Other dimensions on request.

with ECOSE® TECHNOLOGY

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.

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