



February 2016

Pipe Section IPS 680

Description

The IPS 680 is a circular wound and surface ground mineral wool pipe section with a length of 1200mm. The product is non-combustible. Highly precise geometry is achieved thanks to minimal production tolerances. Longitudinal slit on one side (semi-cut on inner counter side) for easy application to the pipe.

Application

IPS 680 pipe sections are suitable for thermal insulation applications.

Certification

IPS 680 pipe sections meet all criteria of EN 14303 and VDI 2055.

IPS 680 meets all the requirements and pass all the tests of ASTM C547.

About ECOSE® Technology

Knauf Insulation mineral wool products 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.

Characteristics

Fire behaviour

IPS 680 pipe section is classified as non-combustible to class A1

Thermal insulation

IPS 680 pipe sections offers superior thermal insulation up to 300 °C mean temperature

Max. service temperature (MST)

IPS 680 has a maximum service temperature of 680 °C

Advantages

- Eurofins Indoor Air Comfort Gold Standard
- superior heat insulation
- temperature-resistant
- non-combustible
- water-repellent
- AS quality
- easy to handle
- non-ageing
- sound-absorbing

Pipe Section IPS 680

Property	Symbol	Description / Data					Unit	Test method/ Standards
Reaction to fire / Surface burning characteristics	---	A1 _L					---	EN 13501-1
Thermal conductivity in relation to temperature*	ϑ _m	50	100	150	200	300	°C	EN ISO 8497
	λ	0,039	0,045	0,053	0,062	0,087	W/(m·K)	
Maximum service temperature*	ST(+)	680					°C	EN 14707
AS-Quality*	---	< 10					mg/kg	EN 13468/ AGI Q 132
Water vapour diffusion resistance value	μ	1					---	EN 12086
Water absorption*	W _p	≤ 1,0					kg/m ²	EN 13472/ AGI Q 132
Melting point of fibres	---	≥ 1000					°C	DIN 4102-17
Silicone free	---	Produced without addition of silicone oil					---	---
Designation code*	---	10.04.03.68.99					---	AGI Q 132

* VDI 2055 monitored

Multi-layer handling

Tolerance classes: T8/T9 accdg. EN 14303

Because of standard tolerances on product inner and outer diameters, in accordance with EN 14303 standard, KI can only guarantee dimension compatibility of Pipe Sections for multi-layer installation if our Customer Service Department has been informed at the time of ordering that the Pipe Sections will be used in multi-layer application.

Application at high temperatures

Thermal conductivity at a medium temperature of 350 °C is 0,102 W/(m*K).

Delivery programme

Inner diameter: 15 – 324 mm
 Insulation thickness: 20 – 120 mm
 Length: 1,200 mm
 Packaging (depending on dimensions):
 In cardboard boxes (400 x 400 x 1200 mm) or wrapped in foil
 Transport volume of cardboard box: 0.192 m³

Handling & storage

The packaging of IPS 680 section pipes is optimised for handling on standard construction sites. Cutting, fitting and assembly is possible without any problem using standard tools.

Note: Do not store outdoors!



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<http://dopki.com/T4305JPCPR>



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