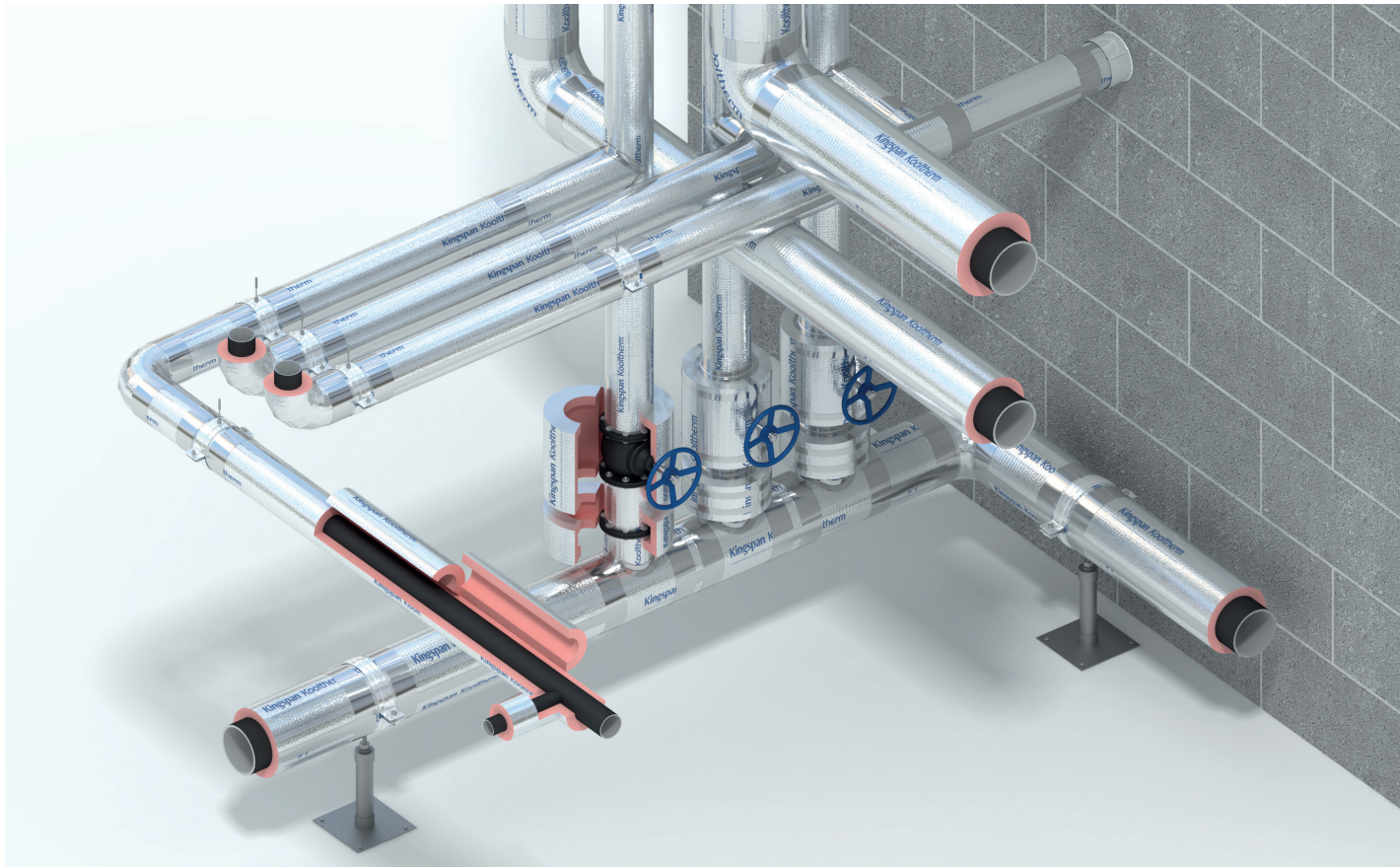




Kooltherm™ Pipe Insulation

Technical Data Sheet



Kooltherm[®] Pipe Insulation

CFC/HCFC Free Rigid Phenolic Insulation with a factory applied aluminium foil vapour barrier

General Physical Properties (Kooltherm[®] Pipe Insulation 37 kg and 120 kg)

Property	Test Method	Unit	Typical Value	
Nominal Density		kg/m ³	37	120
Thermal Conductivity at +10°C. Please refer to DoP for full values.	(BS EN 12667: 2001)	W/mK	0.025	0.045
Colour			Pink / Grey	Grey
Closed Cell Content	(EN ISO 4590) Method 1	%	≥ 90	-
Operating Temperature: Pipe Section*	Upper Limit	°C	+ 110	+ 110
	Lower Limit	°C	- 50	- 50

* Factory applied low permeability multiple layer vapour barrier jacket recommended for applications operating below 0°C

General Physical Properties (Reinforced Foil Vapour Barrier Jacket)

Property	Test Method	Unit	Typical Value
Weight	(BS EN ISO 5360: 2016)	g/m ²	100 + / - 30
Water Vapour Permeance (HVAC Foil):	(ASTM F 1249: 2020)	g/(s.MN)	< 0.0048

Fire Test Classifications

Property	Test Method	Typical Result
Reaction to fire	(BS EN 13501-1: 2018)	B ₁ -s1, d0 (reinforced aluminium foil vapour barrier jacket for outer diameters of up to and including 300 mm). B-s1, d0 (reinforced aluminium foil vapour barrier jacket for outer diameters above 300 mm between 50-100 mm thickness)
FM Approval	Class 4924	Please contact Kingspan technical services for further information

Kooltherm[®] Insulated Pipe Support Inserts

CFC/HCFC Free Rigid Phenolic Insulation

General Physical Properties

Property	Test Method	Unit	Typical Value		
Nominal Density		kg/m ³	60	80	120
Thermal Conductivity at +10°C.	(BS EN 12667: 2001)	W/mK	0.031	0.036	0.045
Colour			Grey	Grey	Grey
Closed Cell Content	(EN ISO 4590) Method 1	%	>90%	>90%	>90%
Operating Temperature Limits: Pipe Section*	Upper Limit	°C	+ 110	+ 110	+ 110
	Lower Limit	°C	- 50	- 50	- 50

* Factory applied low permeability multiple layer vapour barrier jacket recommended for applications operating below 0°C.

Notes:

BS EN ISO 845: 2009 (Cellular plastics and rubbers. Determination of apparent density).

BS EN 12667: 2001 (Thermal performance of building materials and products. Determination of thermal resistance by means of guarded hot plate and heat flow meter methods. Products of high and medium thermal resistance).

BS EN ISO 4590: 2016 (Rigid cellular plastics. Determination of the volume percentage of open cells and of closed cells).

BS EN ISO 5360: 2016 (Anaesthetic vaporisers. Agent-specific filling systems).

ASTM F 1249: 2020 (Standard Test Method for Water Vapor Transmission Rate Through Plastic Film and Sheeting Using a Modulated Infrared Sensor).

BS EN 13501-1: 2018 (Fire classification of construction products and building elements - Classification using data from reaction to fire tests).

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