



KIMMCO-ISOVER Rigid Pipe Covering (K450)

High performance rigid pipe insulation

Excellent thermal insulation

Thermal insulation of steel, copper or plastic pipes operating in temperature up to 232 °C (450 °F) of K450.



Effective fire protection

Base fibers are non combustible when tested in accordance with BS 476 (part 4), ASTM E136.

Durability

K450 Coverings are rot proof, they resist the effects of moisture and will not decompose through continual exposure of the elements.

KIMMCO ISOVER SAINT-GOBAIN

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Characteristic	Symbol	Unit	Quantities and measured values	Standard
Description	Glass Mineral Wool Rigid Pipe Insulation is composed of glass processed from the molten state into fibrous form and bonded with a thermosetting binder. Free from asbestos.			
Thermal Conductivity	T	(°C)	25	ASTM C335
	λ	(W /m·K)	0.032 – 0.033	
Density	ρ	(kg/m^3)	70 – 80 (Tolerances: ±15%)	ASTM C302
Diameter	-	(mm)	Suitable to Pipe sizes from 15mm up to 475 mm (for 25 mm) Suitable to Pipe sizes from 15mm up to 813 mm (for 40 mm)	
Thickness	d	(mm)	25mm 40mm	
Facing	Faced with Aluminum foil (FSK) with SSL tape.			
Concentricity	-	(mm)	Within 5 mm	
Hot Surface Performance	-	-	Shall not crack, warp, flame or glow during hot surface exposure. No evidence of melting or fiber degradation shall be evident upon post test inspection	-
Reaction to Fire Class (Unfaced)	-	-	Euro-class A1 Non-combustible	EN 13 501-1 ASTM E136
Surface Burning Characteristics Flame Spread Index Smoke Developed Index	-	-	 ≤ 25 ≤ 50	ASTM E84
Water Vapour Sorption	-	(%)	< 1 (by volume)	ASTM C1104
Odor Emission	-	-	No detectable odor of objectionable nature was observed	ASTM C1304
Rigidity	-	-	Rigid	ASTM C1101

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Characteristic	Symbol	Unit	Quantities and measured values	Standard
Maximum Service Temperature Min. Max. (Fiber) Max. (Facing)	˚c	-	 -50 +232 +100	ASTM C411
Maximum internal temp. rise		-	< 111	
Sag Resistance	-	(%)	Less than 5 % thickness change	
Linear Shrinkage	-	(%)	Less than 2 % length change	ASTM C356
Fungi Resistance	-	-	Do not promote fungi growth	ASTM C1338
Stress Corrosion to Austenitic Stainless Steel	-	-	No Cracking observed	ASTM C871
pH	-	-	9	ASTMC871
Corrosiveness to Steel	-	-	No Corrosion	ASTM C665
Color	-	-	Yellow	-
Ozone Depletion Potential (ODP)	-	-	'0'	-
Global Warming Potential (GWP)	-	-	'<5'	-
Standard Compliance	**ASTM C547 Type I Grade A**			

Disclaimer: All information and data mentioned in this technical data sheet are based on tests performed in the laboratory. No thing here into be construed as a warranty or representation and were commend, However, that all potential users of the product make their own actual tests prior to using it on industrial scale.

-Product Manufactured and supplied by Kuwait Insulating Material Manufacturing Company (KIMMCO)

www.kimmco-isover.com