

IsoMax[®] 110

IsoMax[®] 110 is a high-temperature thermal insulation made from Insulfrax[®] low bio-persistence fiber. Manufactured through a unique needling process, IsoMax 110 contains no organic binder, yet maintains excellent handling characteristics and flexibility.

IsoMax 110 has been specially formulated as an alternative to needled silica insulation for diesel after-treatment devices. Key advantages of IsoMax 110 over silica mat are its improved basis weight and thickness variability, as well as its low thermal conductivity.



Physical Attributes

Material Density	110 – 140 kg/m ³
Installation Density	170 – 200 kg/m ³
Urea Resistant	Yes

Temperature Ratings

Melting Point	1310°C
Temperature Stability	1100°C
Usage Rating (<1% Shrinkage)	800°C

Basis Weight (± 10%)	Nominal Thickness	Nominal Installation Gap
1150 g/m ²	9.75 mm	6.20 mm
1800 g/m ²	14.50 mm	9.75 mm
2300 g/m ²	17.50 mm	12.50 mm
2800 g/m ²	20.00 mm	15.25 mm
4400 g/m ²	29.00 mm	23.75 mm

Additional basis weights available upon request

Thermal Conductivity	@ 165 kg/m ³	@ 215 kg/m ³
200°C	0.056 W/(m*K)	0.063 W/(m*K)
400°C	0.076 W/(m*K)	0.076 W/(m*K)
600°C	0.100 W/(m*K)	0.103 W/(m*K)
800°C	0.132 W/(m*K)	0.137 W/(m*K)

Data shown are average results of tests conducted under standard procedures and are subject to variation. Results should not be used for specification purposes.

Insulfrax® Fiber – Health and Safety Information

Insulfrax® Thermal Insulation has been tested pursuant to 1.1.3.1. (Nota Q) of Annex VI of regulation (EC) 1272/2008, showing a half life of less than 40 days for fibers longer than 20 µm. Therefore, this product is free of any classification under the EU Classification, Labeling and Packaging (CLP) regulation.

Refer to the product Safety Data Sheet (SDS) for recommended work practices and other product safety information.

Worldwide Technical Support

Unifrax is a worldwide sales and service organization with several international locations and representatives. The services that we provide include thermal modeling, system design engineering assistance, and failure analysis as well as technical exchange programs. For additional information regarding IsoMax 110 or any of our insulation and emission control products, please contact the Unifrax Emission Control Application Engineering Department at 716-768-6461 or aecoordinator@unifrax.com.



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