



SUPER MAT



SuperMat-1400F Product Description

- * ECR Needle Felt Mat Impregnated with PTFE for Hydrophobicity
- * Maximum Operating Temperature 1400F up from 1200F.
- * Environmentally Friendly: No Boron and Fluorine
- * Dust-Free: Minimizes PPE Costs While Increasing Production
- * CUI Mitigation: Hydrophobic and Breathable
- * Durable and Reusable: Will Not Break
- * Improved Surface and Chemical Resistance Including Acid and Alkali.
- * Enhanced Mechanical Properties, and Dielectric Strength
- * Thickness Diversity: 8mm-25mm Reduces Material & Labor Costs.
- * Non-Combustible, Fire Resistant, and Non-Corrosive

Physical Properties

Color	Grey
Density	144 to 192 kg/m ³ (9 to 12 lb/ft ³)
Thicknesses	8 mm (0.3 in), 16 mm (0.63 in), 20 mm (0.78 in), 25mm (1.in)
Mat Composition	100% Select Grade "ECR" Glass
Hydrophobic	Continuous CUI Mitigation Properties
Width	8 mm thick: 5 cm (2 in) to 182 cm (72 in) 16, 20, & 25 mm: 70 cm (30 in) to 182 cm (72 in)

Material Performance Data*

Test Method	Performance	Value
ASTM C356	Linear Shrinkage Under Soaking Heat	<2% @ 649°C
ASTM C795	Corrosiveness over Austenitic SS	Passed
ASTM C1101	Classifying Flexibility	Resilient Flexibility
ASTM C1104	Water Vapor Sorption	<1% (by wt)
ASTM C1338	Fungi Resistance	Passed
ASTM C1763	Water Absorption by Immersion	Procedure B, <5%
ASTM C1511	Liquid Water Retention Post-submersion, after heat aging per test method	<5%
ASTM E84	Surface Burning Characteristics	FSI=0 ; SDI=0

* Third-party test reports available upon request

Blanket Thickness (mm)	Roll Length Meter (ft)
8	~38.1 (125)
16	~22.8 (75)
20	~18.3 (60)
25	~13.7 (45)



Thermal Performance per ASTM C177*

Temperature (°C)	0	100	200	300	400	500	600
Thermal Conductivity (mW/mK)	32.5	43.4	55.7	71.2	85.2	102.5	133.4
Temperature (°F)	32	212	392	572	750	932	1112
Thermal Conductivity (Btu· in/hr·ft ² ·°F)	0.23	0.30	0.39	0.49	0.59	0.71	0.93

* Third-party test reports available upon request

This information is given in good faith and is believed to be accurate. No expressed or implied warranty of any kind, including those of merchantability or fitness for a particular purpose, is made as to the performance of an installation. Super Insulation, LLC does not take any responsibility for the misuse of these products and recommends testing before use.

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