SUPERMAT LAM-PTFE

w/ PTFE-coated fabric laminant

Product Description

- Hydrophobic, flexible insulation blanket with one-sided laminate of PTFE-coated fiberglass fabric.
- Removable and infinitely reusable.
- Insulation blanket is constructed of type E needle felt fiberglass impregnated with PTFE resins.
- The rugged, PTFE-coated woven fabric laminant serves as a durable weather barrier as an alternative to metal jacket where deemed suitable. Maximum use temperature of jacket is 500F (240C).
- Excellent breathability assists in reducing risk of CUI.
- Very good thermal conductivity.
- Easy to handle, fabricate and install.
- No aerogel dust.
- Perfect for piping and equipment where insulation must remain dry.
- PTFE-coated fiberglass provides enhanced chemical resistance of the glass.

Physical Properties

Color	Grey
Density	9 to 12 lb/ft^3 (144 to 192 kg/m^3)
Thickness	8 mm (0.3 in), 16 mm (0.63 in.), and 20 mm (0.79 in.)
Hydrophobic	Continuous to 600°F (315°C)
Width	2 - 60 inches (50 - 1524 mm)
UV Resistance	Excellent

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=45

** Third party test reports available upon request*

BlanketThickness (mm)	Roll Length Meter (ft)
8	~ 38.1 (125)
16	~ 19.8 (65)
20	~ 15.2 (50)

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

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