



# SUPER MAT STC

with Silicone Top Coating



## Product Description

- Hydrophobic flexible insulation blanket.
- Maximum use temperature 650°C (1200°F) continuous.
- Constructed of type E needle felt fiberglass blanket impregnated with PTFE resins.
- Excellent breathability assists in reducing risk of CUI.
- The one-sided, nominal 1 mm thick, continuous silicone coating serves as a durable, weather barrier as an alternative to metal jacket where deemed suitable.
- Very good thermal conductivity.
- Easy to handle, fabricate and install.
- No aerogel dust.
- Small width rolls can be spiral wrapped like tape on small diameter pipe.
- Perfect for piping and equipment where insulation must remain dry.
- PTFE-coated fiberglass provides enhanced chemical resistance of the glass.

## Physical Properties

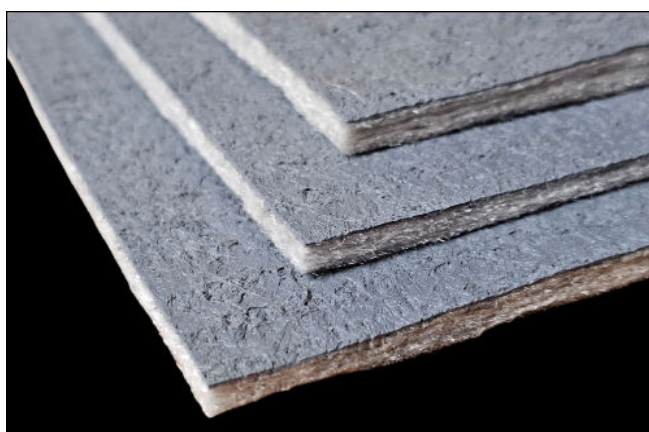
Color	Grey
Density	144 to 192 kg/m <sup>3</sup> (9 to 12 lb/ft <sup>3</sup> )
Thickness	8 mm (0.3 in)
Hydrophobic	Continuous to 315°C (600°F)
Width	2 - 72 inches (50 - 1828 mm)

## 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=10 ; SDI=65

\* Third party test reports available upon request

Blanket Thickness (mm)	Roll Length Meter (ft)
8	~45.7 (150)



## 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 <sup>2</sup> ·°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 misuse of these products and recommends testing before use.

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