



SUPER MAT STC

with Silicone Top Coating



Product Description

- Flexible, durable, breathable and corrosion resistant
- One-sided silicone coating, 1 mm thick. Does not impair breathability. Perfect as weather/ rain barrier where suitable as an alternative to metal jacket
- Hydrophobic to 315°C (600°F) continuous
- Constructed of type E fiberglass and impregnated with fluorocarbon resins
- Maximum use temperature 650°C (1200°F)
 - When used above 315°C (600°F), safe for outdoors and well-ventilated areas
- Very good thermal conductivity
- Easy to handle, fabricate and install
- Dust generation is nil
- Available in various width rolls up to 180 cm (72 in.)
- Small width rolls of (8mm thickness) can be spiral wrapped, like tape, for efficient installation on small diameters
- Perfect for piping and equipment where insulation must remain dry

Physical Properties

Color	Grey
Density	144 to 192 kg/m ³ (9 to 12 lb/ft ³)
Thickness	8 mm (0.3 in), 16 mm (0.63 in), 20 mm (0.78 in), 25 mm (1 in)
Maximum Use Temp	E-glass 649°C; S-glass 760°C; 90%+ SiO ₂ 982°C
Hydrophobic	Continuous to 315°C (600°F)
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=5 ; SDI=75

* 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

CAUTION: Lewco Super Mat is not recommended for INDOOR applications to equipment which will operate above 600°F (315°C).

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.

6859 Renoir Avenue
Baton Rouge, LA 70806



Fax: (225) 927-2918
Tel: (225) 924-3221

Rev. 7
10 July, 2020