



Product Description

- Flexible, durable, breathable and corrosion resistant
- 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
- Extreme chemical resistance and resistance to temperatures greater than 650°C (1200°F) achieved with optional specialty glass fiber
- 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=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

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.

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