



E-GLASS NEEDED MAT

1 DESCRIPTION

Thermal Tech & Temp's E-glass Needed Mat is composed of select grade Type "E" glass fibers needed together into mat form. This needling process employed in the mat's fabrication enhances its structural integrity, providing a cohesive and uniform composition that stands up to demanding conditions. This material has been tested and conforms to Mil-I-16411, Mil-DTL-32585, USCG Subpart 164.009, ASTM C1086, ASTM E84 industry standards.

2 APPLICATIONS

E-glass Needed Mat is often used as thermal insulation and gasket material in industrial furnaces, boilers, and for special piping applications where heat resistance, flexibility, and low susceptibility to air and liquid chemicals are mandatory. Its versatility, durability, and adherence to stringent standards also make it a reliable choice for military and marine industries where thermal management and fire resistance are paramount.

3 ADVANTAGES

Thermal Tech & Temp's E-glass Needed Mat undergoes a specialized processing method to optimize thermal efficiency. This non-respirable, incombustible, asbestos-free material contains no resinous or inorganic binders, ensuring a safe and high-performance solution.

4 PROPERTY DATA

| Characteristics: | English Values: | Metric Values: |
|--------------------------------|-----------------|----------------|
| Melting Point | 1523° F | 828.33°C |
| Maximum Continuous Temperature | 1200° F | 648.88°C |
| Minimum Temperature | -80° F | -62.22°C |

Thermal Conductivity "K" Factor

| Temperature | 6-7# | 9-11# | 9-11# | 6# | 8# |
|-------------|------|-------|-------|------|------|
| 300°F | .292 | .35 | .40 | .388 | .282 |
| 500°F | .350 | .48 | .50 | .520 | .428 |
| 700°F | .445 | .64 | .65 | .680 | .589 |

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