



Insulmat™ 1200 – High Temperature Insulation

Our *Insulmat™ 1200* is a high temperature needled E-glass mat that serves as an extremely cost effective insulation and sound absorbing medium suitable for elevated temperatures up to 1200°F. It's produced from a controlled selection of long textile glass fibers that are mechanically bonded with no organic or synthetic binders to create a remarkably uniform, light weight, and strong blanket up to 1" thick. *Insulmat™ 1200* is extensively used in a wide variety of applications including petrochemical refineries, removable pads, ship turbines, die-cut applications, industrial furnaces and ovens, etc.

- Worbo Technology**
- ✦ *Insulmat™ 1200* offers very good fire resistance with low heat storage and is an effective insulator even when exposed to extremely hot temperatures.
 - ✦ Offers very good chemical resilience and is unaffected by most chemicals.
 - ✦ The absence of organic or synthetic binders makes this product smoke free on heat up and allows the product to remain mechanically stable even after exposure to extreme temperatures.
 - ✦ For some applications, it is possible to use *Insulmat™ 1200* above its classifications temperature (may experience a 2% weight loss at 1200°F (648°C)).
 - ✦ The combination of long spun fibers and the needling operation produce tough resilient and strong blankets which resist tearing both before and after heating.
 - ✦ Excellent vibration resistance, will not powder.
 - ✦ Very adaptable for many application and has good conformability to irregular surfaces.
 - ✦ Exhibits superior acoustic and sound absorption properties as well as thermal insulation characteristics.

Dimensional Data Available in standard 60" wide rolls with thicknesses varying between 1/8" and 1" thick. Roll lengths vary depending on thickness. Other widths are available upon request.

Manufacturing Spec Military Spec MIL-1-16411 Type II, ASTM-C-1086-96, Coast Guard Spec for Incombustible Materials #164.009 and MIL-I-24244

Flame Resistance Flame Spread 0, Smoke Development 0 (per ASTM E-84)

Temperature Temperature classification up to 1200°F (648°C) continuous depending on the application

Density 144 kg/m³ (9 lbs/ft³) up to 176 kg/m³ (11 lbs/ft³)

Thermal Conductivity
ASTMC177

Temperature °C (°F)	Thermal Conductivity "K" for 1"	
	W/m·K	BTU·in/hr·ft ² ·°F
24 (75)	0.042	0.29
149 (300)	0.058	0.40
260 (500)	0.072	0.50
370 (700)	0.094	0.65

