

E-Glass Needled Mat/ Blanket/ Felt

The E-glass needled mat is made of inorganic E glass fiber with the main components of silicone Al O and CaO. It is characterized by heat- resistance, tensile strength, tenacity fireproofing, anti-erosion, and good electrical insulation. The adoption of extreme tiny E glass fibres followed by particular needling leads to numerous thin holes so as to provide heat-insulation and sound-absorbency.



The mat can be for application of avigation, spaceflight, seafaring, and attempator with conduit on heat energy, air condition, chemical, build, also play down engine's noise, and any other occasion which needs heat insulation, fireproofing, acoustic insulation etc.

Thermal Conductivity: 0.0300kcal/mhr °C;

Density: 100kg/m³-200kg/m³;

Heat Resistance: below 800 °C.

Chemical elements of E glass (weight %):

SiO ₂	52~56
Al ₂ O ₃	12~16
CaO	16~25
MgO	0~6
B ₂ O ₃	8~13
Na ₂ O,K ₂ O	0~0.8
TiO ₂	0~-0.4
Fe ₂ O ₃	0.05~0.4

Heat Insulation (density 200kg/m³):

Temperature(°C)	Thermal Conductivity (kcal/mhr °C)
25	0.030
100	0.037
200	0.048
300	0.058
400	0.076
500	0.094
600	0.112
700	0.16

Acoustic Insulation:

Frequency	Acoustic Insulation Coefficient
125	0.32
250	0.76
500	0.94
1000	0.96
2000	0.95
4000	0.98

Correlative page:

<http://www.mowcoproducts.com/fiber-glass-E-needled-mat.html>