

Fiberglass Needle Mat

Description

INSUL – FGMat uses E glass fiber roving as the raw materials while each strand is chopped into a 2~3 inch fraction via the fiber cutting machine and further decomposed into extreme tiny blanket shape through the cotton carding engine. Subsequently, the needled fabrics are ceaselessly sewn by thousands of needles.

Classifications

INSUL – FGMat 710

Features

- Excellent heat-resistance
- Excellent tensile strength
- Fireproof
- Anti-erosion
- Excellent electrical insulation

Applications

Subsequent to being dipped into the resin and next processed into lath shapes, Fiberglass mat is applicable to building construction and gaskets of air conditioners for heat insulation and noise elimination

Subsequent to the laminating for aluminum foil and PVC fabrics on the surface and next being processed into straps, it is provided for thermal insulation and protection of cold / hot piping and underground pipes.

Specifications

- Thickness: 3–40mm
- Width: 1050mm
- Length: 10–40m

Other size is available according to customer's requirement.



Classification	FGMat 710
Service Temperature (°C)	710
Color	White
Density (kg/m ³)	120–200
Thermal Conductivity (W/m.K, 200kg/m ³)	
25°C	0.030
100°C	0.037
300°C	0.058
500°C	0.094
700°C	0.160
Acoustical Ratings(Hz)	
500	0.94
1000	0.96
2000	0.97
4000	0.98
Chemical Composition (%)	
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