

# ApexMat-E

## Fiberglass Needle Mat

### Product Description

ApexMat-E Fiberglass Mat is made from 100% E-grade glass fiber and can withstand temperatures up to 650 °C. It features accurately chopped fibers mechanically bonded through needle-punching, without the use of additional binders. This ensures high thermal insulation efficiency and excellent sound absorption across various applications. This fiberglass needle mat is easy to handle and can be cut into any desired shape or form. It is commonly used in insulation jackets and other applications with high vibration.



### Features

- Low thermal conductivity, excellent thermal insulation
- High temperature durability, low heat shrinkage and heat loss
- High porosity, excellent sound absorption
- 100% inorganic fiber, non-combustibility
- Excellent tensile strength and vibration resistance

Properties	ApexMat-E		
Nominal Density	8 lb/ft <sup>3</sup> (128 Kg/m <sup>3</sup> )		
Service Temperature of Fabric	1000°F (537°C)		
Intermittent Temperature	1200°F (649°C)		
Melting Point	2050°F (1121°C)		
Thickness	1/4"	1/2"	1"
Roll Width	60"		

Thermal Conductivity (K)	W/m • K
392°F (200°C)	0.055
572°F (300°C)	0.085
752°F (400°C)	0.100
932°F (500°C)	0.113
1022°F (550°C)	0.145

The product(s) represented are intended for industrial insulation jacket applications. The values and application information in this datasheet are given for guidance only. The values and the information given are subject to normal manufacturing variation and may be subject to change without notice. Gideon makes no guarantees and gives no warranties about the suitability of a product.