



Product Bulletin

Style E-Glass Culi-mat

Brief Description: E-Glass Culi-mat is made of 100% fiberglass yarns. A mechanical needle punch process binds the fibers into a mat. No chemicals are added to bind the fibers. An additional process has been employed to enhance a unidirectional tensile strength. Furthermore, a special high quality production process allows immensely reduced LOI-values, as well as product conformity, especially at the lower thickness and density ranges. E-Glass Culi-mat is designed for industrial uses such as Back up Insulation, pipe lagging, removable insulation covers, heat shields, stress relieving blankets, jacketing and gasketing, expansion joints, etc. E-Glass Culi-mat comes in four main thicknesses, allowing for the most cost effective choices.

Applications & Advantages:

E-Glass Culi-mat is an effective low cost replacement for asbestos mats, ceramic or refractory fiber paper, mat and sheets, and mineral fiber boards. It is used as a thermal insulation and gasket material in home and industrial furnaces, package boilers and for special piping applications where heat resistance, flexibility and low special air and liquid chemical and thermal resistance are very important. **E-Glass Culi-mat** is also very effective for acoustic insulation and, therefore, ideal for automotive applications such as in catalytic converters and head-liners in automobiles.

Specifications:

MIL-Spec MIL-1-16411 Type II, ASTM-C-1086
Coast Guard Spec For incombustible Materials # 164.009 and MIL-1-24244

Physical Properties:

Thickness		Weight		Density		Service Temperature
Inch	mm	English	Metric	English	Metric	
0.25	6.35	3 oz/sq ft	915.6 g/m ²	9 lbs/cu. ft	144.2 kg/cu. m	Up to 1000°F (538°C)
0.50	12.70	6 oz/sq ft	1831.2 g/m ²	9 lbs/cu. ft	144.2 kg/cu. m	Up to 1000°F (538°C)
0.75	19.05	11 oz/sq ft	3357.2 g/m ²	11 lbs/cu. ft	176.2 kg/cu. m	Up to 1000°F (538°C)
1.00	25.40	15 oz/sq ft	4578 g/m ²	11 lbs/cu. ft	176.2 kg/cu. m	Up to 1000°F (538°C)

E-Glass Culi-mat is extremely fire resistant and incombustible, the moisture absorption is negligible, and experiences less than 2% weight loss during continuous use at 1,000 deg. F (538 deg. C).



Thermal Conductivity ("K" value at 11 lb/cu ft or 145.8 kg/cu. m) "K" BTU-inch/hour-ft ² - °F			Acoustical Ratings			
Mean Temperature	K-Value	R-Value	Frequenc y (Hz)	1/4"	1/2"	1"
75 deg F	0.26	R-4 (1")	250	.04 +- .02	.07 +- .02	.15 +- .04
100 deg F	0.28	R-4 (1")	500	.12 +- .01	.24 +- .01	.80 +- .03
300 deg F	0.35	R-2.9 (1")	1000	.29 +- .01	.55 +- .01	1.02 +- .02
500 deg F	0.45	R-2.2 (1")	2000	.51 +- .01	.79 +- .02	1.08 +- .02
700 deg F	0.60	R-1.7 (1")	4000	.85 +- .01	.91 +- .02	.92 +- .02
			Noise	0.25	0.40	0.70
			Reduction			
			Coefficient			

Please ask our experienced Technical Sales for detailed information or for new developments.

We appreciate your consideration!

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