

LEWCO MAT

High Temperature Needed Insulation Felts



Production & Custom Manufacturing
Baton Rouge, LA



Insulation Felts



Engine Exhaust System Insulation
1000° - 1500°

Silica

98% Silica Fiber to 1800°F

Lewco Sil Mat insulation is manufactured using 98% pure textile grade silica fiber needled together into blanket/felt form. Lewco Sil Mat base fiber is made through a hot extrusion process yielding 6-11 micron, non-respirable fiber. This fiber is then processed to maximize thermal efficiency. Lewco Sil Mat is **INCOMBUSTIBLE, ASBESTOS FREE, NON-RESPIRABLE**, and contains no **ORGANIC, or RESINOUS BINDERS**. Typical applications include engine exhaust system insulation, hot industrial equipment insulation, and many others. Maximum temperature - 1800°F

Silica Typical Properties

Melting Point	3000°F
Continuous Temperature	1800°F
Shrinkage	<7% @ continuous @ 1800°F
Thickness	1/4", 1/2" & 1"
Roll Width	36"
Roll Length	1/4" x 100 ft., 1/2" x 50 ft., 1" x 25 ft.
Density	1/4" - 8#, 1/2" - 9#, 1" - 10#

Fiberglass

100% E Glass Fiber to 1200°F

Lewco Glass Mat is composed of 100% select-grade type "E" glass fibers needled together into mat form. It is **INCOMBUSTIBLE, ASBESTOS FREE**, and contains **NO RESINOUS OR INORGANIC BINDERS**. Lewco Glass Mat can be used on equipment operating at temperatures to 1200°F and will not deteriorate or shake apart in vibrating applications. Comforms to Mil. Spec. Mil-I-16411, Mil-I-24244, ASTM E-84. Smoke -O, Flame -O NRC-1.36

E Glass Typical Properties

Melting Point	1523°F
Maximum Temperature	1200°F
Thickness	1/8", 1/4", 1/2" & 1"
Roll Width	30" and 60"
Roll Length	Various lengths available
Density	6-7#/cu. ft., 9-11#/cu. ft.

Thermal Conductivity (K-Factor) BTU, in./ft2, HR., °F

Temp °F	E-Glass		Silica
	6# density	10# density	10# density
300°F	0.292	0.350	
500°F	0.350	0.480	
700°F	0.445	0.640	
900°F		0.780	0.855
1200°F			1.115
1500°F			1.425
1800°F			1.820

ASTMC - 177

Testing

FLAME SPREAD INDEX = 0
SMOKE DEVELOPED INDEX = 0

ASTM-E84-95 Standard Test Method for SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS (ANSI 2.5, NFPA 255, UBC 8-1, UL 723)

Combustibility
USCG Subpoint:
164.109 & 164.009

Corrosiveness
NRC 1.36, Mil 1. 24244