



ETNA 2640

100% Basalt Continuous Fiber Non-Woven Mat Insulation

Description

ETNA 2640 is a nonwoven insulation mat; for use in high-temperature thermal applications. BASALT CONTINUOUS FIBER will withstand temperatures of up to 1600 °F (877 °C). The fibers are mechanically bonded, containing no additional resins or adhesives. The structure of the material allows for conformability to irregular surfaces and is easily cut and fabricated to intricate configurations.

Product Characteristics

- 100% basalt fiber
- Temperature to 1600 °F (877 °C).
- Non-respirable
- Filament diameter - 9 microns
- Meets chemical acceptability of NRC Guide 1.36, Section C
- Low thermal conductivity
- Non-alkaline (<0.01%)
- Low chlorides and fluorides
- Excellent chemical resistance
- Good drapeability
- Confirms to irregular surfaces
- Negligible moisture absorption
- No shot content

Applications

- High temperature thermal insulation
- Engine exhaust systems
- Engine component heat shields
- Industrial Furnaces
- Turbines

Thermal Conductivity (1" Thick Material)

Temperature (°F)	"K" Factor (BTU in/hr ft ² °F)
500 (260 °C)	0.501 (0.072 W/m K)
800 (427 °C)	0.800 (0.115 W/m K)
1000 (538 °C)	1.075 (0.155 W/m K)
1200 (649 °C)	1.425 (0.206 W/m K)
1400 (760 °C)	1.845 (0.266 W/m K)
1600 (871 °C)	2.335 (0.337 W/m K)

Roll Properties

Thickness (in)	Mass (oz/ft ²)	Density (lb/ft ³)	Width (in) (Up to 84")	Roll Length (ft)	Area per roll (ft ²)	Roll Mass net (lb)
¼ (6.35 mm)	2.0 (610 g/m ²)	6.0 (96 kg/m ³)	36 (91.44 cm)	150 (45.7 m)	450 (41.8 m ²)	56.25 (25.52 kg)
½ (12.7 mm)	4.0 (1220 g/m ²)	6.0 (96 kg/m ³)	36 (91.44 cm)	75 (22.9 m)	225 (20.9 m ²)	56.25 (25.52 kg)
¾ (19.1 mm)	6.0 (1830 g/m ²)	6.0 (96 kg/m ³)	36 (91.44 cm)	45 (13.7 m)	135 (12.5 m ²)	50.62 (22.96 kg)
1 (25.4 mm)	8.0 (2440 g/m ²)	6.0 (96 kg/m ³)	36 (91.44 cm)	45 (13.7 m)	135 (12.5 m ²)	67.5 (30.62 kg)



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