



Material Specification Sheet

Material Number: 23570

Description: 54 oz. / yd.² Fiberglass Needle Punch Nonwoven Insulation

Applications: This product is used in industrial and off highway insulation composites. Fiberglass mats are typically used as primary insulating layers within composites, providing excellent thermal and acoustic properties.

Product Construction: 100% E-type fiberglass, needled nonwoven

Typical Physical Properties:

Property	Test Method	Value
Basis Weight (nominal)	N/A	54 oz. / yd. ²
Composite Thickness (nominal)	N/A	0.500"
Cloth Temperature Resistance	N/A	1000°F (538°C)

ASTM C177 Thermal Conductivity Test Results – 1/2"

Test Thickness		Test Density	
inches	.482	lbs. / ft. ³	9.37
mm	12.2	kg / m ³	150

Mean Temperature		Apparent Thermal Conductivity		Thermal Resistance	
C	F	SI	British	SI	British
93	200	0.04	0.30	0.29	1.63
260	500	0.06	0.44	0.19	1.10
399	750	0.09	0.60	0.14	0.80
538	1000	0.12	0.82	0.10	0.59
648	1200	0.15	1.03	0.08	0.47

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