



Material Specification Sheet

Material Number: 23521

Description: 14 oz. / yd.² Carbon Fiber / Fiberglass Cloth

Applications: 23521 is a soft, flexible, high-temperature, and flame-resistant carbon/fiberglass composite cloth. This material can be used as a high-temperature insulator in under-the-hood applications in construction/off-road equipment, ATVs, and snowmobiles. It doubles as a sound absorber to reduce operator ear and drive-by noise levels. Having a soft, black texture gives it conformability and aesthetic qualities not typically correlated with high-temperature materials. It can perform in wet or dry environments, retaining 75% of its strength when wet. As a bonus, the material is non-irritating, making it easier to work with and install.

Product Construction: Carbon Fiber, 100% Fiberglass Cloth

Typical Physical Properties:

Property	Test Method	Value
Composite Weight	N/A	14 ± 2.1 oz. / yd. ²
Composite Thickness	N/A	0.075 ± 0.011"
Temperature Resistance-continuous	N/A	500°F (260°C)
Temperature Resistance-base fiberglass	N/A	1000°F (538°C)

Thermal Conductivity Test Results (ASTM E 1530):

Thickness (mm)	Bulk Density (g/cubic cm)	Temperature		Conductivity	
		(°C)	(°F)	(W/m-K)	(Btu-in/ft ² -hour-°F)
2.2 @ 25°C	0.196 @ 25°C	23	74	0.0390	0.270
		93	199	0.0371	0.257
		163	326	0.0456	0.316
		232	450	0.0545	0.378

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