



MANUFACTURERS OF  
ELECTRICAL INSULATION MATERIALS

INSULATING COMPONENTS FOR  
POWER SYSTEMS EQUIPMENT

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## MATERIAL DATA SHEET

**Item:** ACME 517 B-Stage Glass Cloth

**Description:** A straight woven glass fabric treated with high performance epoxy resin. ACME 517 meets the performance requirements for continuous Class F (155°C) service.

ACME 517 strips and J spacers are commonly used in the manufacturing of turn insulation. In addition, it is sometimes used as a sub-slot insulator. ACME 517 is often used in place of Nomex™ 410 in applications where material growth and creep cannot be tolerated.

<b>Availability:</b>	Rolls:	English Units	SI Units
		36" wide x 25, 50, and 100 yards long on 3" diameter cores	91 cm wide x 23, 46, and 91 meters long on 7.6 cm diameter cores
		Custom slitting .5" - 35.99" wide coils on 3" diameter cores	Custom slitting 1.3 cm - 91 cm wide coils on 7.6 cm diameter cores

**Fabricated Parts:** The Gund Company custom fabricates insulation materials to the exact specifications and drawings of our customers

Key Characteristics	Test Method	Units - English (SI)	Typical Values	
Tolerances	ASTM D-902	in. (cm)	± 0.001 (0.003)	± 0.001/0.0005 (0.003/0.001)
Base Fiberglass Thickness	ASTM D-902	in. (cm)	0.009 (0.023)	0.0035 (0.0089)
Finished Thickness	ASTM D-902	in. (cm)	0.01 (0.025)	0.005 (0.013)
Approximate Weight	ASTM D-902	lbs./yd <sup>2</sup>	0.7	0.35
Tensile Strength, Warp	ASTM D-902	lbs./in.	120	100
Gurley Stiffness	ASTM D-902	mg	3,000	300
Dielectric Strength	ASTM D-902	V/mil (kV/mm)	1,000 (39)	1,500 (58.5)
Dissipation Factor, 60Hz at 23°C	ASTM D-902	--	0.25	0.25
Thermal Rating	ASTM D-1830	°F (°C)	311 (155)	311 (155)

All of the information, suggestions, and recommendations pertaining to the properties and uses of the products herein are based upon tests and data believed to be accurate; however, the final determination regarding the suitability of any material described herein for the use contemplated, the manner of such use, and whether the use infringes any patents is the sole responsibility of the user. There is no warranty, expressed or implied, including, without limitation warranty of merchantability or fitness for a particular purpose. Under no circumstances shall we be liable for incidental or consequential loss or damage.