



MANUFACTURERS OF  
ELECTRICAL INSULATION MATERIALS

INSULATING COMPONENTS FOR  
POWER SYSTEMS EQUIPMENT

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## MATERIAL DATA SHEET

**Item:** NAD-11 High Temperature Cement Board

**Description:** NAD-11 is an asbestos-free cement board with excellent electrical properties. A high-density cement board reinforced with inorganic fibres, NAD-11 is suitable for applications requiring continuous operation in temperatures up to 350°C or 600°F.

<b>Availability:</b>	Laminate Sheets:	Thickness:	English Units .25" to 4"	SI Units 6.35 mm to 102 mm
		Sheet Sizes:	36" x 48"	91.4 cm x 122 cm

**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
Density	--	lbs./in. (g/cc)	0.063 (1.74)
Water Absorption (.125")	ASTM D-570	%	15
Flexural Strength, Ambient (.125")	ASTM F-84	psi (MPa)	4,640 (32)
350°C			3,480 (24)
500°C			3,190 (22)
Maximum Service Temperature	--	°F (°C)	932 (500)
Compressive Strength, Flatwise	ASTM D-695	psi (MPa)	17,110 (118)
Thermal Shrinkage, 350°C	--	Linear %	0.21
500°C			0.25
750°C			0.57
Thermal Conductivity, 50°C	--	BTU-in./ft. <sup>2</sup> /hr. <sup>o</sup> /F	1.73 (0.25)
200°C			1.94 (0.28)
400°C			2.15 (0.31)
Volume Resistivity	--	Ohm/cm	2.54 x 10 <sup>4</sup> (1.0 x 10 <sup>4</sup> )
Arc Resistance	ASTM D-495	Seconds	370
Dielectric Strength, Perpendicular in Oil (.0625")	ASTM D-149	V/mil (kV/mm)	69 (2.9)

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.