



MANUFACTURERS OF
ELECTRICAL INSULATION MATERIALS
 INSULATING COMPONENTS FOR
POWER SYSTEMS EQUIPMENT

TheGundCompany, Inc
 St. Louis, Missouri—USA
 TEL-314.423.5200
 FAX-314.423.9009

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 degrees Centigrade or 600 degrees Fahrenheit.

Availability:	Laminate Sheets:	Thickness:	English units .25"-4"	SI Units 6mm-102mm
		Sheet Sizes:	36"x48"	91.4cmx122cm

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 ³ (g/cc)	0.063(1.74)
Water Absorption(1/8" thick)	ASTMD-570	%	15
Maximum Service Temperature		°F(°C)	932(500)
Compressive Strength	ASTMD-695, (flatwise)	psi(MPa)	17,110(118)
Flexural Strength 1/8"(ambient)	ASTMD-790	psi(MPa)	4,640(32)
Flexural Strength 1/8"(350 °C)	ASTMD-790	psi(MPa)	3,480(24)
Flexural Strength 1/8"(500 °C)	ASTMD-790	psi(MPa)	3,190(22)
Thermal Conductivity(50 °C)		BTU-in/ft ² /hr ⁰ /F (W/(m*K))	1.73(.25)
Thermal Conductivity(200 °C)		BTU-in/ft ² /hr ⁰ /F (W/(m*K))	1.94(.28)
Thermal Conductivity(400 °C)		BTU-in/ft ² /hr ⁰ /F (W/(m*K))	2.15(.31)
Thermal Shrinkage(350 °C)		Linear%	.21
Thermal Shrinkage(500 °C)		Linear%	.25
Thermal Shrinkage(750 °C)		Linear%	.57
Volume Resistivity	ASTMD-150	MOhm/in(Ohm/cm)	2.54x10 ⁴ (1.00x10 ⁴)
Arc Resistance	ASTMD-495	Sec	370
Dielectric Strength(Perp. 1/16", oil)	ASTMD-149, (A-short)	V/mil(kV/mm)	69(2.9)

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