The Gund Company, Inc.
St. Louis, Missouri

Tel: (314) 423-5200
Fax: (314) 423-9009

Material Data Sheet

Item: NAD-11 Insulation 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: .Up to 4.0"
Sheet Sizes: 36" x 48

Convolute Tubing: Not available in tubing.

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

Typical Properties:	**NAD-11**	
Water Absorption	15%	
Density	109 lbs.ft^3	1,750 kg/m^3
Maximum Service Temperature	932 F^o	500 C^o
Compressive Strength	17,110 lbs/in^2	118 MN/m^2
Flexural Strength (1/8" thick)		
C^o F^o	lbs/in^2	MN/m^2
at ambient	4,640	32
350 662	3,480	24
500 932	3,190	22
Thermal Conductivity		
C^o F^o	W/(m*K)	BTU-in/ft^2/hr^o/F
50 122	0.25	1.73
200 392	0.28	1.94
400 752	0.31	2.15
Thermal Shrinkage (after 24 hours)		
C^o F^o	Linear%	
350 660	0.21	
500 930	0.25	
750 1300	0.57	
Dielectric Strength	69 V/mil	2.9 KV/mm
Volume Resistivity	2.54 x 10^4 MOhm/in.	1.00 x 10^4 Ohm/cm
Arc Resistance	370 Seconds	

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.