

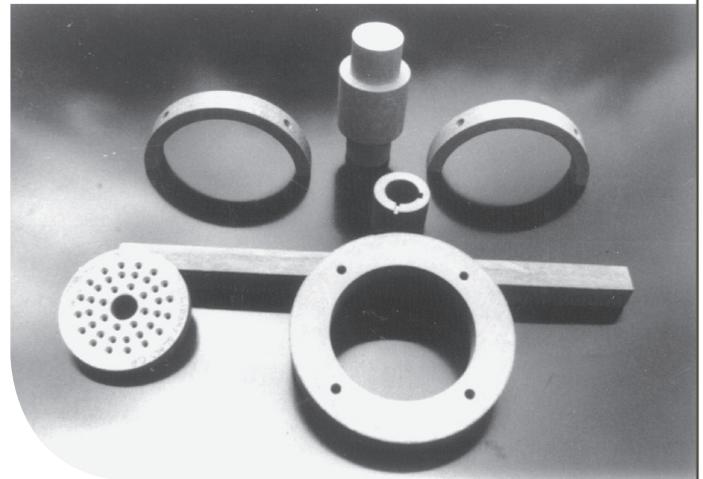
# NAD-11

## STRUCTURAL INSULATION BOARD

NAD-11 is a high density, inorganic fibre reinforced, asbestos free cement board with excellent electrical properties. NAD-11 is suitable for applications with operating temperatures up to 500°C (932°F).

### PHYSICAL PROPERTIES

Property	Value
Density—kg/m <sup>3</sup> (lb/ft <sup>3</sup> )	1750 (109.25)
Moisture Absorption	<ul style="list-style-type: none"> <li>• 15% after 24 hour immersion in water</li> <li>• &lt;0.5% when silicone impregnated for 24 hours in water</li> <li>• 2.5% after 24 hours in 95% relative humidity</li> <li>• 3% after 100 hours in 95% humidity</li> </ul>
Maximum Continuous Service Temperature	500°C (932°F)
Compressive Strength—MPa (psi)	118 (17,114.50)
Dielectric Strength—KV/mm (V/mil)	2.90 (73.70)
Arc Resistance—seconds	370
Volume Resistivity—MΩ·cm	1.00 x 10 <sup>4</sup>
Flexural Strength—MPa (psi)	
24 hours at ambient temp.	32 (4641.21)
24 hours at 350°C (662°F)	24 (3480.91)
24 hours at 500°C (932°F)	22 (3190.83)
Thermal Conductivity—W/m·K (BTU·in/ft <sup>2</sup> ·hr·°F)	
at 100°C (212°F)	0.37 (2.57)
at 150°C (302°F)	0.42 (2.91)
at 200°C (392°F)	0.47 (3.26)



### BENEFITS

- Dimensionally stable
- Good mechanical strength at operating temperature
- Non-combustible
- Good machining characteristics
- Chemically inert
- Asbestos free
- Tooled with CNC machines to meet project requirements

### APPLICATIONS

- Cathode support pads
- Platen insulation
- Element supports
- Oven cladding
- Furnace plates
- Induction furnaces

### AVAILABILITY

1220 mm x 910 mm (48 in x 36 in) boards. Available in thicknesses between 6–75 mm (0.25–3.0 in).

### HEALTH AND SAFETY

Prior to use refer to the product safety datasheet for proper handling and required personal protective equipment.

