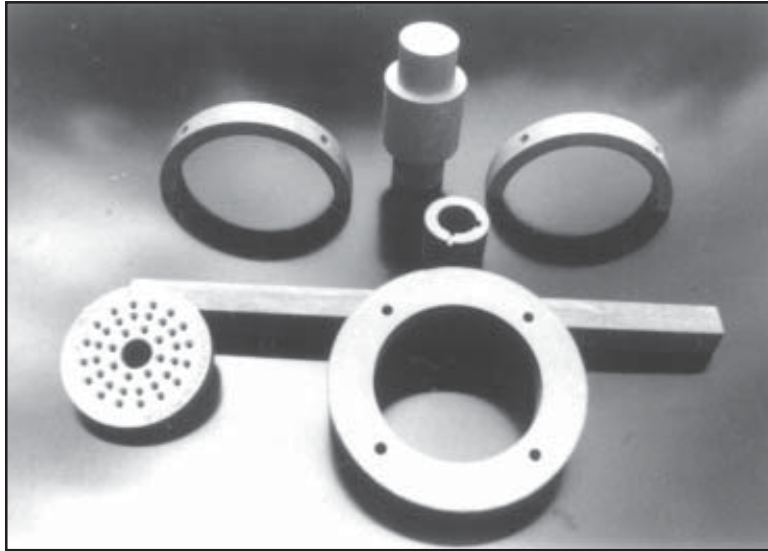


NAD-11

STRUCTURAL INSULATION BOARD



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 500°C (932°F).

APPLICATIONS:

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

ADVANTAGES:

- Dimensional stability
- Mechanical strength at temperature
- Non-combustible
- Good machining characteristics
- Chemically inert
- Asbestos-free

MACHINED COMPONENTS:

Our machine shops use CNC tooling machines to produce precision components to customer specifications.

Pyrotek's worldwide locations provide fast reliable service. Please contact us for additional information.

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NAD-11 TECHNICAL DATA:

Available forms

Boards: 1220 mm x 910 mm
48 in x 36 in

Available thickness

6 mm - 75 mm
0.25 in - 3.0 in

Physical Properties

Density

1,750 kg/m³
109 lbs/ft³

Moisture absorption

- 1) 15% for 24 hour immersion in water
- 2) < .5% when silicone impregnated for 24 hours in water
- 3) 2.5% for 24 hours in 95% relative humidity
- 4) 3% for 100 hours in 95% humidity

Maximum continuous service temperature

500°C
932°F

Compressive strength

118 MN/m²
17,110 lbs/in²

Electrical Properties

Dielectric strength

2.9 KV/mm
69 V/mil

Arc resistance

370 sec

Flexural strength (after 24 hours)

°C	°F	MN/m ²	lbs/in ²
at ambient		32	4640
350	662	24	3480
500	932	22	3190

Thermal conductivity

°C	°F	W/(m · K)	BTU-in/ft ² /hr°F
100	212	0.37	2.57
150	302	0.42	2.91
200	392	0.47	3.26

Thermal shrinkage (after 24 hours)

°C	°F	Linear %
350	660	0.21
500	930	0.25
705	1,300	0.57

Volume resistivity

1.00 x 10⁴ MΩ · cm
2.54 x 10⁴ MΩ · in

Advanced Metals Processing Technology

Pyrotek

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Note: The physical and chemical properties listed represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice.

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