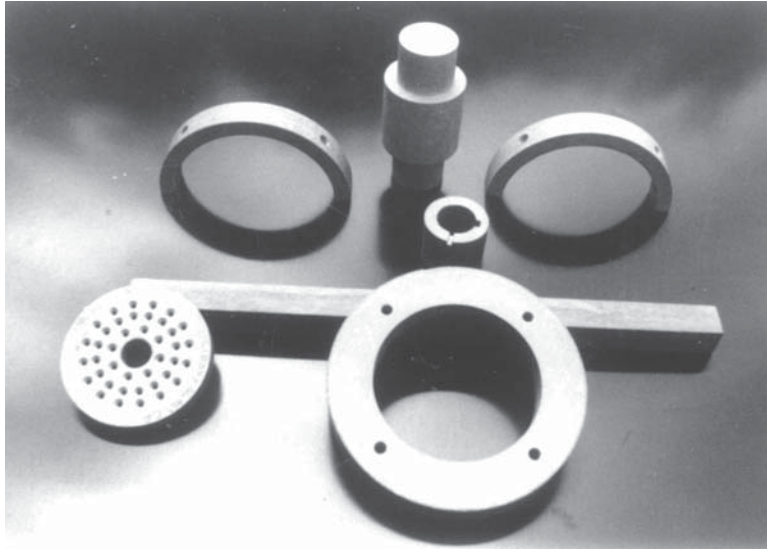


NAD-500

STRUCTURAL INSULATION BOARD



NAD-500 is an asbestos-free cement board with excellent electrical properties. A high density cement board reinforced with inorganic fibres, NAD-500 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.

Pyrotek

NAD-500 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



REGIONAL OFFICES

EUROPE:

United Kingdom +44 (0)1 908-561155
Germany +49 (0) 2182 8 10 20
France +33 (0) 4 37 43 13 00
Scandinavia +46 (0) 534 62000
Czech Republic +420 (0) 506 418 305
Switzerland +41 (0) 27 455 82 64
Spain +(34) 976 222 545

AFRICA:

Republic of South Africa
(27) (0)357 974 039

ASIA:

Pyrotek Asia HQ
+(86) (0)755-26632324

AUSTRALIA:

Pyrotek Australia HQ
+61 (0)2 9631-1333

CANADA:

Pyrotek Canadian HQ
(418) 545-8093

JAPAN:

Pyrotek Japan Ltd.
+(81) (0)78 265-5590

NEW ZEALAND:

Pyrotek New Zealand HQ
+64 (0)3 214-4789

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.

PRINTED IN THE USA BY PYROTEK, INC. • E. 9503 MONTGOMERY AVE. SPOKANE WA 99206
PHONE (509) 926-6212 • FAX (509) 927-2408 • PY4-04-97-152

www.pyrotek.info • e-mail: info@pyrotek.info