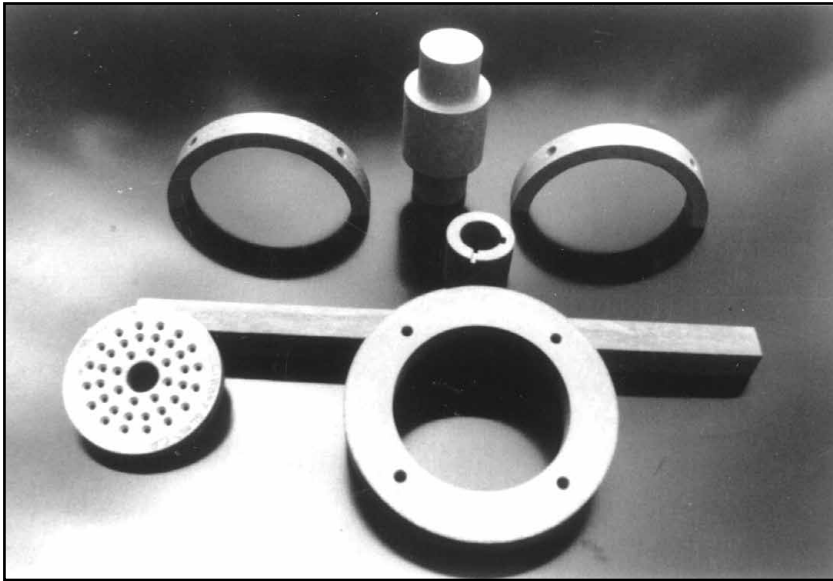


STRUCTURAL INSULATION BOARD



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.

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

AVAILABILITY

Available in 1220 x 910 mm boards with thicknesses of 6–75 mm.

MACHINED COMPONENTS

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

HEALTH AND SAFETY

Prior to use refer to the product safety data sheet (SDS) for proper handling and required personal protective equipment (PPE).

PHYSICAL PROPERTIES

Density	1750 kg/m ³
Moisture Absorption	15% for 24 hour immersion in water < 0.5% when silicone impregnated for 24 hours in water 2.5% for 24 hours in 95% relative humidity 3% for 100 hours in 95% humidity
Maximum Continuous Service Temperature	500°C
Compressive Strength	118 MN/m ²
Dielectric Strength	2.9 KV/mm 69 V/mil
Arc Resistance	370 sec
Volume Resistivity	1.00 x 10 ⁴ MΩ·cm
Flexural Strength (After 24 Hours)	32 MN/m ² @ ambient 24 MN/m ² @ 350°C 22 MN/m ² @ 500°C
Thermal Conductivity	0.37 W/m·K @ 100°C 0.42 W/m·K @ 150°C 0.47 W/m·K @ 200°C
Thermal Shrinkage (Linear) (After 24 Hours)	0.21% @ 350°C 0.25% @ 500°C 0.57% @ 705°C

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.

Product Type: 122, 165
Commodity Code: 09002