

FUSED SILICA
HOT PRESS PLATENS
CASTABLE CERAMICS
FIRED SHAPES
AEROSPACE TOOLING

Foundry Service & Supplies, Inc.

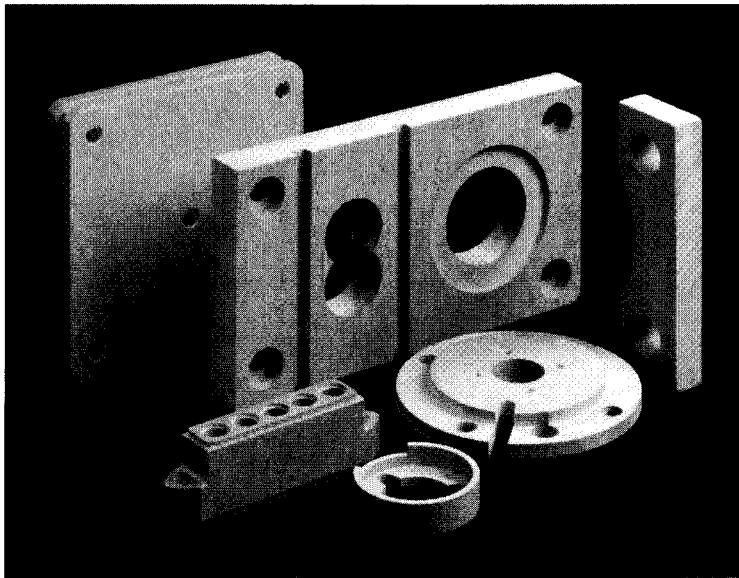
11808 E. Burke Street, Santa Fe Springs, CA 90670
Telephone: (562) 945-6511
Fax: (562) 696-1633

HI-TEMP INSULATIONS
CALCIUM SILICATE BOARDS
MILLBOARD AND BLANKET
PAPERS AND CEMENTS
CUTTING AND FABRICATING

- 1000°F Maximum Operating Temperature
- Electrical Insulation
- Corrosion Resistance
- High Density Durability
- Economical

Transite® 1000

Monolithic, Non-Asbestos Fiber Cement Boards



Advantages

Thermal Strength. Transite 1000 is non-combustible and can withstand maximum operation temperatures from 600°F to 1000°F. It also has a low thermal conductivity.

High Strength. Our filter bed press creates a board with isotropic properties — equal strengths in all directions for dimensional stability. Since Transite 1000 is monolithic, it will not delaminate. Transite 1000 is very durable and offers high impact and wear resistance. It will not powder or chip.

Corrosion and Chemical Resistance. Transite 1000 is non-conductive and it will not rot or mold when exposed to prolonged dampness. It has good resistance without coatings to alkalis and solvents.

Transite 1000 is engineered to handle higher temperatures, loads and electrical conditions with less shrinkage and degradation compared to previous non-asbestos formulas.

Transite 1000 is a high-density, non-asbestos board used in a wide variety of applications where a combination of high strength, thermal stability, electrical insulation or machinability is required.

Transite 1000 is hydraulically pressed into monolithic boards from refractory cement and selected non-asbestos reinforcement and silica. The board is steam-cured, oven dried, and sanded to a standard 24 grit finish.

Machinability. Transite 1000 is oven dried and monolithic, so it machines into exceptionally fine and intricate parts.

Finish/Appearance/Maintenance.

The board is neutral gray in color, and may lighten uniformly with time.

Transite 1000 requires practically no maintenance. The hard, smooth surface does not normally need painting or preservative treatment, but either can be applied if a different aesthetic appearance is desired. Follow the coating manufacturers suggestions.

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Typical Applications

Here is just a partial listing of the variety of uses Transite 1000 can fulfill:

High Strength. Load-bearing gaskets, spacers and supports; press plates; machine guards; laboratory benchtops and fume hood linings.

Electrical. Busbar supports; transformer spacers; terminal boxes and strips; electrical coil supports; arc shields; collars and bushings; aluminum pot insulation; steel arm insulators; and component mounting plates.

Thermal. Foundry core plates; induction and muffle furnace walls; industrial and baking oven shelving; soldering plates; splash guards; and welding shields.

Installation Details

Transite 1000 can be applied directly to framing members with screws, bolts or mechanical fasteners. The board is recommended for interior applications only. For other special wall applications, contact BNZ about the potential use of Marinite or Fiber Cement Panels.

All bolts or fasteners must be placed in predrilled oversized holes no closer than 1/2" from any edge. Oversized holes must be 1/16" or larger diameter for 1/4" bolts and 1/8" or larger diameter for 1/2" or larger fasteners. Bolt heads and nuts must have an adequate washer bearing surface. Applications where vibration or motion exists must utilize rubber or neoprene gasketed washers.

Note: These details are offered as suggestions for the installation of Transite 1000. BNZ makes no attempt to practice architecture or engineering. The final decision and responsibility for approval of installation details lies with the architect or engineer of record.

Storage

Transite 1000 should be stored horizontally in a dry, flat area.

Warranty

BNZ Materials warrants that its products are manufactured in accordance with its applicable material specifications and are free from defects in workmanship and materials using BNZ's specifications as a standard. Every claim under this warranty shall be deemed waived unless in writing and received by BNZ within thirty (30) days of the date the defect was discovered and within one (1) year of the date of the shipment of the product.

BNZ MAKES NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, IN FACT OR IN LAW, INCLUDING WITHOUT LIMITATION, THE WARRANTY OF MERCHANTABILITY OR THE WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, OTHER THAN THE LIMITED WARRANTY SET FORTH ABOVE.

Typical Data

Properties

Composition: Monolithic non-asbestos fiber cement

Production Process: Filter bed

Thickness: inches 1/2, 3/4, 1, 1 1/2, 2, 3
mm 12.7, 19.1, 25.4, 38.1, 50.8, 76.2

Width: inches 48 3/8
mm 1235

Length: inches 96 3/8
mm 2454

Density, pcf (kg/m³) 98 (1,570)

Maximum Operating Temperature,
°F (°C) 1000 (538)

Shrinkage, % 600°F 1000°F
Length, width: .14 .44
Thickness: .41 1.33

Compressive Strength,
psi (kg/cm²) 13,350 (939)

Modulus of Rupture,
dry,* psi (kg/cm²) 3,000 (211)

Modulus of Rupture/(Density)² .32

Moisture Content,
(normal),* % of dry weight 7

Water Absorption, % 21

Thermal Conductivity,
Btu-in/ft², hr,
°F @ 250°F (W/m²K @ 121°C) 2.40 (0.34)

Fire Hazard, (ASTM E 84)
Flame spread: 0
Smoke developed: 0

Volume Resistivity,
ohm-cm, (ASTM D 257) 1.25 x 10¹³

Surface Resistivity,
ohm-cm, (ASTM D 257) 1.59 x 10¹⁶

Arc Resistance,
seconds, (ASTM D 495) 272

Dielectric Strength,
volts/mil, (ASTM D 495) 56

Note: The physical and chemical properties of BNZ's Transite 1000 represent 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.

Limitation of Liability

It is expressly understood and agreed that the limit of BNZ's liability shall be the resupply of a like quantity of non-defective product and that BNZ shall have no such liability except where the damage or claim results solely from breach of BNZ's warranty.

IT IS ALSO AGREED THAT BNZ SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, OR OTHER DAMAGES FOR ANY ALLEGED NEGLIGENCE, BREACH OF WARRANTY, STRICT LIABILITY, OR ANY OTHER THEORY, OTHER THAN THE LIMITED LIABILITY SET FORTH ABOVE.

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BNZ Materials, Inc.

Billerica Plant Product Notice Transite 1000 September 10, 2003

Dear Billerica Customers,

For more than a year we have been manufacturing an improved Transite product called Transite 1000. Many of you have seen samples and have run small scale trials. I am writing this letter because our international sales are many times our domestic sales. This means BNZ is doing a poor job of selling you and your customers in North America.

Transite 1000 is designed to compete specifically against NAD 11, NAD 500, and Tenmat products. We have taken Transite HT and improved it by changing its chemistry and the manufacturing process by which it is made.

What this means for you and your customers is a product that is very strong, very flat, and resists the negative effects of temperatures up to and including 1000F. Transite 1000 is also more dimensionally stable after heating than other dense cement boards.

These mechanical advantages, a 4 foot x 8 foot sheet size and a selling price which is 25% to 35% lower than it's competition, make it a terrific value for you and your end users.

The application areas where the greatest successes have been so far are:

- **Induction Furnaces**
- **Transportation Electrical parts**
- **Core Plates**
- **Traditional Electrical Resistance machined items.**

Quality, Service and Alliances

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Comparison Chart of Transite 1000 and NAD 11

	Transite 1000	NAD 11
Production Process	Filter Bed	Filter Bed
Sheet Size	4'x8'	3'x4'
Density pcf	98	115
Maximum Temperature	1000F	1000F
Continuous Temperature	1000F	660F
Shrinkage % linear		
600F	.14	.44
1000F	.44	.76
Compressive psi	13,350	15,500
MOR, Bending psi	3,000	4,000
MOR, after 1000F	2,500	1,500
Dielectric Strength Volts/mil	56	87
Arc Resistance Seconds	272	330
Volume Resistivity Ohm-cm	1.25EE13	1.00EE10
Surface Resistivity Ohm-cm	1.59EE16	na

Transite 1000 features and benefits.

Large 4'x8' sheet size.

Made in the United States of America.

Lower Cost.

Better heat resistance and Thermal Shrinkage.

Transite 1000 is sold and marketed by BNZ Materials Billerica Plant, a company committed to selling products through value added distributors and fabricators.