

FUSED SILICA
HOT PRESS FLATENS
CASTABLE CERAMICS
FIRED SHAPES
AEROSPACE TOOLING

Foundry Service & Supplies, Inc.

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

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MINTHERM BOARD 1925

Microporous Silica Insulating Board

Description: *MINTHERM BOARD 1925* is a microporous insulating board that offers exceptionally low thermal conductivity (lower than dormant air). Each board is individually encapsulated in polyethylene foil to make it resistant to moisture. Typical applications include:

Aluminum Industry

Ladle Insulation
Reduction Cell Insulation
Trough & Runner Insulation
Melting Furnace Insulation
Holding Furnace Insulation

Glass Industry

Forehearth Insulation
Feeder Bowl Insulation
Feeder Bowl Covers
Orifice Ring Insulation
Tank Wall Insulation
Recuperator Insulation

Steel Industry

Coke oven door insulation
Converter Insulation
Ladle Insulation
Tuyser Stock Insulation
Tundish Insulation
Bussel Main Insulation
Iron Runner Insulation

Chemical Properties

Chemical Composition:

SiO ₂	72 %
ZrO ₂	27 %
Al ₂ O ₃	< 1 %

Physical Properties

Color:	white
Maximum Use Temperature:	1925° F (1050° C)
Density:	18.7 lbs./ft. ³ (300 kg/m ³)
Compressive Strength:	145 - 435 psi (1 - 3 N/mm ²)
Hot Compressive Strength at 1300° F (700° C)	217.5 psi (1.5 N/mm ²)
Flexural Strength:	17.4 psi (0.12 N/mm ²)
Permanent Linear Change:	
after 24 hours at 1500° F (800° C)	- 0.3 %
after 24 hours at 1742° F (950° C)	less than 1.5 %
Specific Heat (Kj/KgK)	1.05 (400° C)

Thermal Conductivity:	BTU-in/ hr.ft.² °F	(W / mK)
at 392° F (200° C)	0.15	0.022
at 752° F (400° C)	0.17	0.025
at 1472° F (800° C)	0.27	0.040

Available Thicknesses: 0.39" (10 mm), 0.59" (15 mm), 0.78" (20 mm), 1" (25 mm), 1.18" (30 mm), 1.57" (40 mm), 1.96" (50 mm)

Standard Dimensions: 39.37" (1.0 m) long x 23.62" (0.6 m) wide
19.68" (0.5 m) long x 23.62" (0.6 m) wide
special sizes available upon request