

MARINITE

3R4050



Description

This insulation board is lightweight, non-corroding and does not disintegrate even after water immersion. The oven dried 3R4050, is used in a variety of heat insulating processes, in fire protection and as machined parts. Selections are commonly based on a balance between strength and insulating qualities.

Applications

Principal applications : oven walls and linings, welding insulation, fire doors, fire training burn buildings, cable trays, personnel protection, and as insulation for marine ships and off-shore rigs.

Back-up insulation applications : ladles, torpedo cars and tundishes in the iron and steel industry, lime and cement plant rotary kilns, and aluminium die cast holding furnaces.

Specifications

Technical Data

Density	46lbs/ft ³ (737kg/m ³)
Modulus of Rupture (Flexural Strength)	800psi (56kg/cm ²)
Load @ 5% deformation	1000psi (70kg/cm ²)
Moisture Content (normal), % of dry weight	3.0
Thermal Conductivity (Btu-in/ft ² , hr, °F)	400°F: 0.81, 600°F: 0.79, 800°F: 0.81, 1000°F: 0.86
Thermal Conductivity (W/m ² K)	204°C: 0.12, 316°C: 0.11, 427°C: 0.12, 538°C: 0.12
Shrinkage 24h at 1200°F	Linear: 0.4%, Thickness: 1.4
Volume Resistivity (ASTM D257)	9.7 X (10 ⁷) ohm-cm

Dielectric Strength (ASTM D495)	45 m/mil
Screw Holding Strength @ 7/8" penetration	200lbs (91kg)

N.B. The information presented may differ from practice. We recommend conducting tests according to the conditions of use. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products. The data is subject to certain variations without notice.