# ISOMAG 55 XCO

## STRUCTURAL INSULATION

ISOMAG® 55 XCO is a magnesium silicate-based structural insulating board. The board provides insulating properties with excellent strength and dimensional stability up to 1000°C (1830°F).

At operating temperatures, ISOMAG's high strength and excellent insulating properties improve the thermo-mechanical stability of refractory systems. This provides lining tightness and better resistance to metal penetration. ISOMAG insulating board reduces thermal shock and skull buildup, increasing productivity and efficiency.

### BENEFITS

- Low heat loss at high temperatures
- High mechanical strength at high temperatures
- High temperature rating

### APPLICATIONS

- Ladles
- Tundishes

### PHYSICAL PROPERTIES

| | |
|---|---|
| Density (D792)†–kg/m³ (lb/ft³) | 970 ± 7% (61 ± 7%) |
| Apparent Porosity (C-830-88)† | 63% |
| Maximum Service Temperature | 1050°C (1922°F) |
| Continuous Service Temperature | 1000°C (1830°F) |
| Cold Crushing Strength (D651/D695)†–MPa (psi) | 6.5 (943) |
| Flexural Strength (D790)†–MPa (psi) | 6.2 (900) |
| Thermal Conductivity–W/m·K (BTU·in/ft²·hr·°F)<br>at 197°C (387°F)<br>at 297°C (566°F)<br>at 598°C (1109°F)<br>(BS1902 sec. 5.5:1991)††† | <br>0.21 (1.44)<br>0.22 (1.53)<br>0.25 (1.76) |
| Available Forms–mm (in) | Sheets: 965 x 1270 (38 x 50) |
| Available Thickness–mm (in) | 12.7–51 (0.5–2.0) |

*† Based on ASTM standards*
*††† Based on British Standard test methods*

*Note: ISOMAG® 55 XCO has been heat treated to 400°C (750°F) so mechanical properties will not be reduced when board is subjected to this temperature. The physical and chemical properties of ISOMAG 55 XCO 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.*



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*Product Type: 118, 144, 165*
*Commodity Code: 15008*