



PRODUCT DATA

Brand Name: **DIBOND® 60 L**

Description: DIBOND® 60 L is a high fired, mixed refractory silicate and direct bonded magnesia chrome brick of the 60% magnesia class. The high firing temperature produces improved resistance to non-ferrous and steel process slags and metals. DIBOND® 60 L is available plain or supplied with Steelklad external plating.

Physical properties shown are averages based on standard brick sizes.
ASTM test methods used where applicable

Bulk Density (pcf)

As Received 189 (3.03 g/cm³)

Modulus of Rupture (psi)

At 70°F (21°C) 690 (48.3 kg/cm²)

Hot Modulus of Rupture (psi)

At 2700°F (1480°C) 330 (23.1 kg/cm²)

Permanent Linear Change (%)

After 3100°F (1705°C) 0.0

Apparent Porosity (%)

As Received 17.9

Thermal Conductivity (K Factor)

| Mean Temperature | <u>BTU/ft²/hr./°F/inch</u> | <u>W/mK</u> |
|------------------|---------------------------------------|-------------|
| 400°F (204°C) | 25 | 3.6 |
| 1200°F (650°C) | 22 | 3.2 |
| 2000°F (1093°C) | 20 | 2.9 |

Typical Chemical Analysis (%)

(Calcined Basis)

| | |
|---|------|
| Magnesia (MgO) | 58.4 |
| Alumina (Al ₂ O ₃) | 14.6 |
| Silica (SiO ₂) | 2.6 |
| Iron Oxide (Fe ₂ O ₃) | 7.8 |
| Chromic Oxide (Cr ₂ O ₃) | 15.6 |
| Lime (CaO) | 1.0 |

Brand Code: 5240

The properties shown on this data sheet represent typical average results using standard ASTM test methods (unless otherwise noted) conducted under controlled condition (using standard rectangular shapes), and should not be considered to be guaranteed specifications. Properties are subject to normal manufacturing statistical standard deviation ranges, and Resco Products, Inc. reserves the right to modify the properties and specifications at any time without prior notice.

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