



Brick

Product Data

DIBOND® 60 L

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.

REHEAT (Permanent Linear Change) - ASTM C113

Contraction or Expansion at 3100°F (1705°C)..... 0.0%

APPARENT POROSITY - ASTM C20..... 17.9%

	<u>lb/ft³</u>	<u>g/cm³</u>
BULK DENSITY - ASTM C20	188.9	3.02

	<u>lb/in²</u>	<u>MPa</u>
MODULUS OF RUPTURE - ASTM C133	690	4.8

HOT MODULUS OF RUPTURE - ASTM C583

Heated at 2700°F (1480°C) 330 2.3

THERMAL EXPANSION at 2550°F (1400°C) 1.7%

THERMAL CONDUCTIVITY

At a Mean Temperature of	<u>Btu-in/hr-ft²·°F</u>	<u>W/m·°C</u>
400°F (204°C).....	25	3.6
1200°F (650°C).....	22	3.2
2000°F (1093°C).....	20	2.9

CHEMICAL ANALYSIS (loss free) mass %*

Magnesia - MgO	58.4%
Chromia - Cr ₂ O ₃	15.6%
Alumina - Al ₂ O ₃	14.6%
Iron Oxide - Fe ₂ O ₃	7.8%
Silica - SiO ₂	2.6%
Lime - CaO	1.0%

The properties shown on this data sheet represent typical average results generated 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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