



Brick

Product Data

DIBOND® 60

DIBOND® 60 is a high fired, high density magnesia chrome brick of the 60% magnesia class. The high firing temperature produces a mixed refractory silicate and direct bonded brick with excellent volume stability, thermal shock and spall resistance. These features increase resistance to slag and metal penetration in the non-ferrous and steel related industries. DIBOND® 60 is available plain or with Steelklad external plating.

REHEAT (Permanent Linear Change) - ASTM C113

Contraction or Expansion at 3100°F (1705°C)..... 0.2% exp.

APPARENT POROSITY - ASTM C20..... 17.3%

	<u>lb/ft³</u>	<u>g/cm³</u>
BULK DENSITY - ASTM C20	190.1	3.04

	<u>lb/in²</u>	<u>MPa</u>
MODULUS OF RUPTURE - ASTM C133	750	.52

HOT MODULUS OF RUPTURE - ASTM C583	440	.31
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Heated at 2700°F (1480°C)

THERMAL EXPANSION at 2550°F (1400°C) 1.6%

THERMAL CONDUCTIVITY

At a Mean Temperature of	<u>Btu-in/hr-ft²·F</u>	<u>W/m °C</u>
400°F (204°C).....	25	.36
1200°F (650°C).....	22	.32
2000°F (1093°C).....	21	.30

CHEMICAL ANALYSIS (loss free) mass %*

Magnesia - MgO	60.1%
Chromia - Cr ₂ O ₃	16.1%
Alumina - Al ₂ O ₃	13.5%
Iron Oxide - Fe ₂ O ₃	7.0%
Silica - SiO ₂	2.5%
Lime - CaO	0.8%

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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