

## **DURACHROME® 70DB**

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**DESCRIPTION:** Direct-bonded magnesia-chrome brick made from high-purity magnesia and chrome ore. Improved thermal shock resistance.

**USES INCLUDE:** Electric furnace roofs and sidewalls  
AODs  
Degassers  
Copper Converters  
Lead Smelters  
Nickel Converters  
Ladle Working and Tank Linings

### **CHEMICAL ANALYSIS: (TYPICAL CHEMICAL ANALYSIS)**

Approximate %-

|               |       |             |
|---------------|-------|-------------|
| Magnesia      | MgO   | 70% minimum |
| Chromic Oxide | Cr2O3 | 13.5%       |
| Silica        | SiO2  | 1.4%        |
| Alumina       | Al2O3 | 5.0%        |
| Iron Oxide    | Fe2O3 | 10%         |
| Lime          | CaO   | 1.4%        |

### **TYPICAL AS RECEIVED PROPERTIES:**

|  |             |
|--|-------------|
| Apparent Porosity %                    | </=18.0     |
| Bulk Density pcf (g/cm3)               | 194(3.10)   |
| CCS psi (Mpa)                          | 4350(30)    |
| HMOR, 2700F psi (Mpa)                  | 290(2)      |
| RUL, °F(°C)                            | >3092(1700) |
| Thermal conductivity, BTU/sf/hr2(W/MK) |             |
| 400°F(200°C)                           | 25.3        |
| 800°F(426°C)                           | 26          |
| 1200°F(648°C)                          | 25.6        |

The values reported above are average values derived from production data encompassing many different sizes and shapes. Actual data will vary to a small degree naturally, and as a function of size and shape. This form is not intended to be used for purposes of specification, it is informational only.