



# PRODUCT DATA

**Brand Name:** R-80B  
**Description:** BURNED FIRE HIGH ALUMINA BRICK

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

**Bulk Density (pcf)**

As Received 172 (2.76 g/cm<sup>3</sup>)

**Modulus of Rupture (psi)**

At 70°F (21°C) 2520 (177 kg/cm<sup>2</sup>)

**Cold Crushing Strength (psi)**

At 70°F (21°C) 11400 (802 kg/cm<sup>2</sup>)

**Apparent Porosity (%)**

As Received 16.0

**Permanent Linear Change (%)**

After 2910°F (1600°C) 2.0

**Typical Chemical Analysis (%)**

(Calcined Basis)

Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	78.0
Silica (SiO <sub>2</sub> ) .....	15.5
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	1.3
Lime (CaO) .....	0.2
Magnesia (MgO) .....	0.1
Titania (TiO <sub>2</sub> ) .....	2.5
Phosphorus Pentoxide (P <sub>2</sub> O <sub>5</sub> ) .....	2.1
Alkalis (Na <sub>2</sub> O+K <sub>2</sub> O) .....	0.3

Brand Code: 7018

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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