



PRODUCT DATA

Brand Name: **RESCAL 85 B**
Description: HIGH ALUMINA, HIGH STRENGTH BRICK

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

Bulk Density (pcf)

As Received 176 (2.82 g/cm³)

Modulus of Rupture (psi)

At 70°F (21°C) 2500 (176 kg/cm²)

Cold Crushing Strength (psi)

At 70°F (21°C) 11600 (812 kg/cm²)

Apparent Porosity (%)

As Received 11.5

Permanent Linear Change (%)

After 2910°F (1600°C) +1.6

Hot Load Deformation (%)

At 2640°F (1450°C) & 25 psi 0.5 - 1.3

Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al ₂ O ₃)	77.0
Silica (SiO ₂)	14.0
Iron Oxide (Fe ₂ O ₃)	1.7
Lime (CaO)	0.3
Titania (TiO ₂)	3.1
Magnesia (MgO)	0.2
Phosphorus Pentoxide (P ₂ O ₅)	3.3
Alkalis (Na ₂ O+K ₂ O)	0.4

Brand Code: 2910

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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