



PRODUCT DATA

Brand Name: RESCAL 10 CRSR
Description: BURNED, SHOCK RESISTANT, ALUMINA CHROME BRICK

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

Maximum Service Temperature: 3400°F (1870°C)

Bulk Density (pcf)

As Received 197 (3.16 g/cm³)

Modulus of Rupture (psi)

At 70°F (21°C) 3000 (210 kg/cm²)
At 2700°F (1482°C) 1720 (120 kg/cm²)

Cold Crushing Strength (psi)

At 70°F (21°C) 15000 (1050 kg/cm²)

Apparent Porosity (%)

As Received 17.5

Permanent Linear Change (%)

After 2900°F (1593°C) -0.08

Thermal Shock Resistance (ASTM C-1171)

Loss in Strength (5 cycles at 2200°F) 5.1%

Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al ₂ O ₃)	83.3
Silica (SiO ₂)	2.4
Iron Oxide (Fe ₂ O ₃)	0.1
Lime (CaO)	0.2
Chromic Oxide (Cr ₂ O ₃)	10.0
Alkalis (Na ₂ O+K ₂ O)	0.2
Other	3.8

Brand Code: 7020

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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