



# PRODUCT DATA

**Brand Name:** FURNACON™ 80

**Description:** FURNACON™ 80 is a aluminum-resistant, low cement 80% alumina castable. This castable should be installed by vibration cast methods only. FURNACON™ 80 features high strength and excellent aluminum resistance.

Physical properties shown are average values of samples taken under controlled conditions  
 ASTM test methods used where applicable

**Dry Material Required per Cubic Foot :** 170 lbs. (approximate)

**Typical Water Required for Mixing (by weight) :**

Vibration Cast ..... 5.8%

**Bulk Density (pcf)**

Vibration Cast Data

After 220°F (105°C)	170	(2.72 g/cm <sup>3</sup> )
After 1500°F (815°C)	169	(2.70 g/cm <sup>3</sup> )

**Cold Crushing Strength (psi)**

After 1500°F (815°C)	12000	(840 kg/cm <sup>2</sup> )
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**Modulus of Rupture (psi)**

After 1500°F (815°C)	2340	(164 kg/cm <sup>2</sup> )
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**Permanent Linear Change (%)**

After 1500°F (815°C)	-0.15
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**Hot Modulus of Rupture (psi)**

(Using ASTM C-583 Method)

At 1500°F (815°C)	3300	(231 kg/cm <sup>2</sup> )
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**Typical Chemical Analysis (%)**

(Calcined Basis)

Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	80.2
Silica (SiO <sub>2</sub> ) .....	11.3
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	0.4
Titania (TiO <sub>2</sub> ) .....	1.3
Lime (CaO) .....	1.5
Magnesia (MgO) .....	0.1
Alkalis (Na <sub>2</sub> O+K <sub>2</sub> O) .....	0.2
Others .....	5.0

**Standard Packaging:** 55 lb bag. 72 bags per pallet. Bulk packaging available.

Brand Code: 8950

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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