



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

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

Recommended Mixing Time: 5 minutes

Typical Water Required for Mixing (by weight) :

Vibration Casting 5.8%

	Vibration Cast Data	
Bulk Density (pcf)		
After 220°F (105°C) :	170	(2720 kg/m ³)
After 1500°F (815°C) :	169	(2704 kg/m ³)

Cold Crushing Strength (psi)		
After 1500°F (815°C) :	12,000	(840 kg/cm ²)

Cold Modulus of Rupture (psi)		
After 1500°F (815°C) :	2,340	(164 kg/cm ²)

Permanent Linear Change (%)		
After 1500°F (815°C) :	-0.15	

Hot Modulus of Rupture (psi)		
Using ASTM C-583 Method		
At 1500°F (815°C) :	3,300	(231 kg/cm ²)

Typical Chemical Analysis, % (Calcined Basis)

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

Brand Code: 8950
Standard Packaging: 72- 55 lbs bags per pallet. Bulk packaging available.

The properties shown on this data sheet represent typical average results generated 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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