



PRODUCT DATA

Brand Name: EZ CAST® 3000

Description: EZ CAST® 3000 is a self-flowing, low iron, 56% alumina, low cement castable designed to provide high strength and good thermal shock and abrasion resistance. It offers good slag resistance for severe applications up to 3000°F. In the laboratory, this product has shown excellent resistance to CO atmospheres found in coke ovens and blast furnaces. Large volumes of this castable have been used successfully in a wide variety of applications.

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

Maximum Service Temperature: 3000°F (1649°C)

Typical Water Required for Mixing (by weight) :

Vibration Casting	4.0 - 5.5%
Self Flow Casting	5.5 - 6.8%

Dry Material Required per Cubic Foot:

Vibration Casting	149 - 153 lbs
Self Flow Casting	144 - 147 lbs

	Vibration Casting Data		Self Flow/Pump Casting Data	
Bulk Density (pcf)				
After 220°F (105°C)	154 - 158	(2.46 - 2.53 g/cm ³)	143 - 152	(2.29 - 2.43 g/cm ³)
After 1500°F (815°C)	153 - 157	(2.45 - 2.51 g/cm ³)	147 - 151	(2.35 - 2.42 g/cm ³)
Cold Crushing Strength (psi)				
After 220°F (105°C)	9000 - 13000	(630 - 910 kg/cm ²)	4000 - 9000	(280 - 630 kg/cm ²)
After 1500°F (815°C)	11000 - 15000	(770 - 1050 kg/cm ²)	4000 - 8000	(280 - 560 kg/cm ²)
Modulus of Rupture (psi)				
After 220°F (105°C)	2200 - 3000	(154 - 210 kg/cm ²)	1000 - 1800	(70 - 126 kg/cm ²)
After 1500°F (815°C)	1400 - 2200	(98 - 154 kg/cm ²)	1000 - 1600	(70 - 112 kg/cm ²)
Apparent Porosity (%)				
After 220°F (105°C)	8 - 12		10 - 14	
After 1500°F (815°C)	10 - 14		13 - 17	
Permanent Linear Change (%)				
After 1500°F (815°C)	-0.2 to 0.2		-0.4 to 0.0	

Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al ₂ O ₃)	56.0
Silica (SiO ₂)	38.4
Lime (CaO)	1.3
Iron Oxide (Fe ₂ O ₃)	1.0
Titania (TiO ₂)	1.8
Magnesia (MgO)	0.4
Alkalies (Na ₂ O+K ₂ O)	1.1

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

Brand Code: 0812

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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