



PRODUCT DATA

Brand Name: EZ CAST® 3200

Description: EZ CAST® 3200 is a self-flowing, 76% alumina low cement castable designed to provide longer service life and superior performance in steel applications with temperatures up to 3200°F. It also has outstanding strength and abrasion resistance. In laboratory testing this product has shown excellent resistance to CO atmospheres found in coke ovens and blast furnaces.

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

Maximum Service Temperature: 3200°F (1760°C)

Typical Water Required for Mixing (by weight) :

Vibration Casting	4.0 - 5.0%
Self Flow Casting	5.5 - 6.5%

Dry Material Required per Cubic Foot:

Vibration Casting	139 - 145 lbs
Self Flow Casting	136 - 140 lbs

	Vibration Casting Data		Self Flow/Pump Casting Data	
Bulk Density (pcf)				
After 220°F (105°C)	172 - 176	(2.75 - 2.82 g/cm ³)	169 - 173	(2.70 - 2.77 g/cm ³)
After 1500°F (815°C)	170 - 174	(2.72 - 2.78 g/cm ³)	164 - 170	(2.62 - 2.72 g/cm ³)
Cold Crushing Strength (psi)				
After 220°F (105°C)	12000 - 16000	(840 - 1120 kg/cm ²)	5000 - 10000	(350 - 700 kg/cm ²)
After 1500°F (815°C)	10000 - 16000	(700 - 1120 kg/cm ²)	5000 - 9000	(350 - 630 kg/cm ²)
Modulus of Rupture (psi)				
After 220°F (105°C)	1800 - 2500	(126 - 175 kg/cm ²)	1200 - 1800	(84 - 126 kg/cm ²)
After 1500°F (815°C)	1700 - 2200	(119 - 154 kg/cm ²)	1100 - 1500	(77 - 105 kg/cm ²)
Apparent Porosity (%)				
After 220°F (105°C)	8 - 11		11 - 14	
After 1500°F (815°C)	11 - 14		15 - 17	
Permanent Linear Change (%)				
After 1500°F (815°C)	-0.4 to 0.0		-0.2 to 0.0	

Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al ₂ O ₃)	76.2
Silica (SiO ₂)	19.2
Lime (CaO)	1.2
Iron Oxide (Fe ₂ O ₃)	0.9
Titania (TiO ₂)	2.1
Magnesia (MgO)	0.2
Alkalies (Na ₂ O+K ₂ O)	0.2

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

Brand Code: 0818

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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