



PRODUCT DATA

Brand Name: EZ CAST® 2700

Description: EZ CAST® 2700 is a general purpose, economical castable designed for applications up to 2700°F. It is particularly effective in applications where destructive gases and atmospheres or excessive wear shorten refractory life.

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

Maximum Service Temperature: 2700°F (1482°C)

Typical Water Required for Mixing (by weight) :

Vibration Casting	4.5 - 6.0%
Self Flow Casting	6.5 - 8.5%

Dry Material Required per Cubic Foot:

Vibration Casting	140 - 144 lbs
Self Flow Casting	135 - 139 lbs

<u>Bulk Density (pcf)</u>	<u>Vibration Casting Data</u>		<u>Self Flow Casting Data</u>	
	Range	Specific Gravity	Range	Specific Gravity
After 220°F (105°C)	142 - 146	(2.27 - 2.34 g/cm ³)	138 - 142	(2.21 - 2.27 g/cm ³)
After 1500°F (815°C)	140 - 144	(2.24 - 2.30 g/cm ³)	135 - 139	(2.16 - 2.23 g/cm ³)
<u>Cold Crushing Strength (psi)</u>				
After 220°F (105°C)	10000 - 14000	(700 - 980 kg/cm ²)	5000 - 9000	(350 - 630 kg/cm ²)
After 1500°F (815°C)	8000 - 12000	(560 - 840 kg/cm ²)	3000 - 7000	(210 - 490 kg/cm ²)
<u>Modulus of Rupture (psi)</u>				
After 220°F (105°C)	1100 - 1500	(77 - 105 kg/cm ²)	700 - 1100	(49 - 77 kg/cm ²)
After 1500°F (815°C)	1500 - 1900	(105 - 133 kg/cm ²)	600 - 1000	(42 - 70 kg/cm ²)
<u>Apparent Porosity (%)</u>				
After 220°F (105°C)	7 - 9		12 - 14	
After 1500°F (815°C)	13 - 15		17 - 19	
<u>Permanent Linear Change (%)</u>				
After 1500°F (815°C)	-0.5 to -0.1		-0.3 to 0.0	

Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al ₂ O ₃)	42.2
Silica (SiO ₂)	49.2
Lime (CaO)	3.7
Iron Oxide (Fe ₂ O ₃)	1.2
Titania (TiO ₂)	1.8
Magnesia (MgO)	0.5
Alkalies (Na ₂ O+K ₂ O)	1.4

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

Brand Code: 0807

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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