



PRODUCT DATA

Brand Name: EZ CUBED® LO-ERODE®

Description: EZ CUBED® LO-ERODE® can be vibration cast or poured in addition to shotcreted and can be used at temperatures up to 2600°F. It is a shotcrete mix that will meet the tough property standards at 1500°F required by the hydrocarbon processing industry.

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

Maximum Service Temperature: 2600°F (1427°C)

Typical Water Required for Mixing (by weight) :

Vibration Casting	4.5 - 5.5%
Self Flow/Pump Casting	6.3 - 7.3%

Dry Material Required per Cubic Foot:

Vibration Casting	137 - 141 lbs
Self Flow/Pump Casting	135 - 139 lbs

	Vibration Casting Data		Self Flow Casting Data	
Bulk Density (pcf)				
After 220°F (105°C)	142 - 146	(2.27 - 2.34 g/cm ³)	134 - 144	(2.15 - 2.31 g/cm ³)
After 1500°F (815°C)	137 - 141	(2.19 - 2.26 g/cm ³)	135 - 139	(2.16 - 2.23 g/cm ³)
After 2000°F (1093°C)	138 - 142	(2.21 - 2.27 g/cm ³)	136 - 140	(2.18 - 2.24 g/cm ³)
Cold Crushing Strength (psi)				
After 220°F (105°C)	14000 - 18000	(980 - 1260 kg/cm ²)	8000 - 16000	(560 - 1120 kg/cm ²)
After 1500°F (815°C)	9000 - 13000	(630 - 910 kg/cm ²)	8000 - 12000	(560 - 840 kg/cm ²)
After 2000°F (1093°C)	5000 - 9000	(350 - 910 kg/cm ²)	4000 - 8000	(280 - 840 kg/cm ²)
Modulus of Rupture (psi)				
After 220°F (105°C)	1000 - 1800	(70 - 126 kg/cm ²)	1800 - 2200	(126 - 154 kg/cm ²)
After 1500°F (815°C)	1200 - 2000	(84 - 140 kg/cm ²)	1200 - 2000	(84 - 140 kg/cm ²)
After 2000°F (1093°C)	1000 - 1600	(70 - 112 kg/cm ²)	1000 - 1600	(70 - 112 kg/cm ²)
Thermal Conductivity (K Factor)	BTU/ft²/hr°F/inch	W/mK	BTU/ft²/hr°F/inch	W/mK
After 220°F (105°C)	-----	-----	-----	-----
After 1500°F (815°C)	10.9	1.57	10.0	1.44
After 2000°F (1093°C)	11.6	1.67	10.6	1.53
Apparent Porosity (%)				
After 220°F (105°C)	4 - 8		8 - 12	
After 1500°F (815°C)	15 - 19		15 - 19	
Permanent Linear Change (%)				
After 1500°F (815°C)	-0.3 to 0.0		-0.3 to 0.0	
After 2000°F (1093°C)	-0.4 to -0.2		-0.5 to -0.2	

Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al ₂ O ₃)	44.1
Silica (SiO ₂)	46.7
Lime (CaO)	4.4
Iron Oxide (Fe ₂ O ₃)	1.0
Titania (TiO ₂)	1.6
Magnesia (MgO)	0.5
Alkalis (Na ₂ O+K ₂ O)	1.7

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

Brand Code: 0862

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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