



PRODUCT DATA

Brand Name:

EZ CUBED® FINE 80 SiC

Description:

FINE GRAINED/SHOTCRETABLE/SiC CONTAINING/LOW CEMENT CASTABLE

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

Maximum Service Temperature: 2550°F (1399°C)

Typical Water Required for Mixing (by weight) :

Pump/Shotcrete Casting 5.2 to 6.2%
Hand Pack Casting 5.0 to 6.0%

*Hand Packing Requires Liquid Thickener

Dry Material Required per Cubic Foot:

Pump/Shotcrete Casting 162 - 166 lbs
Hand Pack Casting 152 - 157 lbs

	Hand Pack Casting Data		Shotcrete Data	
<u>Bulk Density (pcf)</u>				
After 220°F (105°C)	151 - 161	(2.42 - 2.58 g/cm ³)	159 - 163	(2.55 - 2.61 g/cm ³)
After 1500°F (815°C)	156 - 160	(2.50 - 2.56 g/cm ³)	160 - 164	(2.56 - 2.63 g/cm ³)
After 2000°F (1093°C)	156 - 160	(2.50 - 2.56 g/cm ³)	158 - 162	(2.53 - 2.59 g/cm ³)
<u>Cold Crushing Strength (psi)</u>				
After 220°F (105°C)	6000 - 11000	(420 - 770 kg/cm ²)	8100 - 9100	(567 - 637 kg/cm ²)
After 1500°F (815°C)	5700 - 10000	(399 - 700 kg/cm ²)	7000 - 12000	(490 - 840 kg/cm ²)
After 2000°F (1093°C)	6500 - 11500	(455 - 805 kg/cm ²)	10500 - 16500	(735 - 1155 kg/cm ²)
<u>Modulus of Rupture (psi)</u>				
After 220°F (105°C)	1000 - 1600	(70 - 112 kg/cm ²)	2000 - 2600	(154 - 224 kg/cm ²)
After 1500°F (815°C)	1750 - 2200	(123 - 154 kg/cm ²)	1700 - 2300	(140 - 182 kg/cm ²)
After 2000°F (1093°C)	1900 - 2400	(133 - 168 kg/cm ²)	2600 - 3600	(182 - 252 kg/cm ²)
<u>Thermal Conductivity (K Factor)</u>				
			<u>BTU/ft²/hr/°F/inch</u>	<u>W/mK</u>
After 220°F (105°C)	--	--	69.7	10.05
After 1500°F (815°C)	--	--	46.9	6.76
After 2000°F (1093°C)	--	--	46.0	6.63
<u>Apparent Porosity (%)</u>				
After 220°F (105°C)	12 - 16		10 - 14	
After 1500°F (815°C)	16 - 20		12 - 16	
<u>Permanent Linear Change (%)</u>				
After 1500°F (815°C)	-0.3 to 0.0		-0.2 to +0.2	
After 2000°F (1093°C)	-0.3 to 0.0		-0.4 to 0.0	
<u>Typical Chemical Analysis (%)</u>				
(Calcined Basis)				
Alumina (Al ₂ O ₃)	12.4			
Silicon Carbide (SiC)	78.0			
Silica (SiO ₂)	7.5			
Lime (CaO)	1.4			
Iron Oxide (Fe ₂ O ₃)	0.4			
Titania (TiO ₂)	0.1			
Magnesia (MgO)	0.1			
Alkalis (Na ₂ O+K ₂ O)	0.1			

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

Brand Code: 0860

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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