



PRODUCT DATA

Brand Name: EZ CUBED® FINE 90 BFA
Description: FINE GRAINED/SHOTCRETABLE CASTABLE

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

Maximum Service Temperature: 2500°F (1371°C)

Typical Water Required for Mixing (by weight) :

Pump/Shotcrete Casting 6.0 to 7.0%
 Hand Pack Casting 6.0 to 7.0%
 *Hand Packing Requires Liquid Thickener

Dry Material Required per Cubic Foot:

Pump/Shotcrete Casting 179 - 181 lbs
 Hand Pack Casting 172 - 177 lbs

	Hand Pack Casting Data		Shotcrete Data	
Bulk Density (pcf)				
After 220°F (105°C)	175 - 180	(2.80 - 2.88 g/cm ³)	176 - 178	(2.82 - 2.85 g/cm ³)
After 1500°F (815°C)	173 - 178	(2.77 - 2.85 g/cm ³)	172 - 178	(2.76 - 2.85 g/cm ³)
After 2000°F (1093°C)	175 - 180	(2.80 - 2.88 g/cm ³)	174 - 178	(2.79 - 2.85 g/cm ³)
Cold Crushing Strength (psi)				
After 220°F (105°C)	8900 - 12900	(623 - 903 kg/cm ²)	13000 - 17000	(910 - 1190 kg/cm ²)
After 1500°F (815°C)	10800 - 14800	(756 - 1036 kg/cm ²)	13000 - 17000	(910 - 1190 kg/cm ²)
After 2000°F (1093°C)	17000 - 21000	(1190 - 1470 kg/cm ²)	17000 - 23000	(1190 - 1610 kg/cm ²)
Modulus of Rupture (psi)				
After 220°F (105°C)	1800 - 2300	(126 - 161 kg/cm ²)	2500 - 3000	(175 - 210 kg/cm ²)
After 1500°F (815°C)	2700 - 3200	(189 - 224 kg/cm ²)	4000 - 5000	(280 - 350 kg/cm ²)
After 2000°F (1093°C)	4000 - 4600	(280 - 322 kg/cm ²)	5000 - 6000	(350 - 420 kg/cm ²)
Thermal Conductivity (BTU/ft²/hr/°F/inch)				
After 220°F (105°C)	--		28.9	(4.17 W/mK)
After 1500°F (815°C)	--		18.8	(2.71 W/mK)
After 2000°F (1093°C)	--		19.4	(2.80 W/mK)
Apparent Porosity (%)				
After 220°F (105°C)	14 - 18		12 - 16	
After 1500°F (815°C)	17 - 21		16 - 20	
Permanent Linear Change (%)				
After 1500°F (815°C)	-0.3 to 0.0		-0.6 to -0.2	
After 2000°F (1093°C)	-0.5 to -0.1		-0.6 to -0.2	

Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al ₂ O ₃)	88.1
Silica (SiO ₂)	6.9
Lime (CaO)	2.1
Iron Oxide (Fe ₂ O ₃)	0.1
Titania (TiO ₂)	2.2
Magnesia (MgO)	Trace
Alkalis (Na ₂ O+K ₂ O)	Trace

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

Brand Code: 1498

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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