



PRODUCT DATA

EZ CUBED® 60-M

Brand Name:

Description: MULLITE-BASED/ SELF FLOW/PUMPABLE/SHOTCRETE/LOW CEMENT CASTABLE

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

Maximum Service Temperature: 3100°F (1704°C)

Typical Water Required for Mixing (by weight) :

Vibration Casting	4.00 to 5.00%
Self Flow/Pump Casting	5.75 to 6.75%
Shotcrete	4.75 to 5.75%

Dry Material Required per Cubic Foot:

Vibration Casting	151 - 159 lbs
Self Flow/Pump Casting	149 - 154 lbs
Shotcrete	159 - 164 lbs

<u>Bulk Density (pcf)</u>	<u>Vibration Casting Data</u>		<u>Self Flow Casting Data</u>		<u>Shotcrete Data</u>	
After 220°F (105°C)	160 - 165	(2.56 - 2.64 g/cm ³)	154 - 159	(2.46 - 2.54 g/cm ³)	157 - 162	(2.51 - 2.59 g/cm ³)
After 1500°F (815°C)	158 - 163	(2.53 - 2.61 g/cm ³)	152 - 157	(2.43 - 2.51 g/cm ³)	153 - 158	(2.45 - 2.53 g/cm ³)
After 2000°F (1093°C)	156 - 161	(2.50 - 2.58 g/cm ³)	152 - 157	(2.43 - 2.51 g/cm ³)	156 - 162	(2.50 - 2.59 g/cm ³)

<u>Cold Crushing Strength (psi)</u>	<u>Vibration Casting Data</u>		<u>Self Flow Casting Data</u>		<u>Shotcrete Data</u>	
After 220°F (105°C)	17000 - 23000	(1190 - 1610 kg/cm ²)	7000 - 13000	(490 - 910 kg/cm ²)	12000 - 18000	(840 - 1260 kg/cm ²)
After 1500°F (815°C)	19000 - 25000	(1330 - 1750 kg/cm ²)	7500 - 13500	(525 - 945 kg/cm ²)	11000 - 17000	(770 - 1190 kg/cm ²)
After 2000°F (1093°C)	16500 - 22500	(1155 - 1575 kg/cm ²)	8500 - 14500	(595 - 1015 kg/cm ²)	8500 - 14500	(595 - 1015 kg/cm ²)

<u>Modulus of Rupture (psi)</u>	<u>Vibration Casting Data</u>		<u>Self Flow Casting Data</u>		<u>Shotcrete Data</u>	
After 220°F (105°C)	1700 - 2700	(119 - 189 kg/cm ²)	1250 - 2250	(88 - 158 kg/cm ²)	2200 - 3200	(154 - 224 kg/cm ²)
After 1500°F (815°C)	3500 - 4500	(245 - 315 kg/cm ²)	1750 - 2750	(123 - 193 kg/cm ²)	2250 - 3250	(158 - 228 kg/cm ²)
After 2000°F (1093°C)	3200 - 4200	(224 - 294 kg/cm ²)	2350 - 3350	(165 - 235 kg/cm ²)	2200 - 3200	(154 - 224 kg/cm ²)

<u>Thermal Conductivity (K Factor)</u>	<u>Vibration Casting Data</u>		<u>Self Flow Casting Data</u>		<u>Shotcrete Data</u>	
	<u>BTU/ft²/hr/°F/inch</u>	<u>W/mK</u>	<u>BTU/ft²/hr/°F/inch</u>	<u>W/mK</u>	<u>BTU/ft²/hr/°F/inch</u>	<u>W/mK</u>
After 220°F (105°C)	18.1	2.61	14.9	2.15	16.2	2.34
After 1500°F (815°C)	16.0	2.31	13.2	1.90	14.7	2.12
After 2000°F (1093°C)	16.6	2.39	14.0	2.02	15.6	2.25

<u>Apparent Porosity (%)</u>	<u>Vibration Casting Data</u>		<u>Self Flow Casting Data</u>		<u>Shotcrete Data</u>	
After 220°F (105°C)	4 - 8		9 - 13		-----	
After 1500°F (815°C)	10 - 14		15 - 19		13 - 17	

<u>Permanent Linear Change (%)</u>	<u>Vibration Casting Data</u>		<u>Self Flow Casting Data</u>		<u>Shotcrete Data</u>	
After 1500°F (815°C)	-0.7 to -0.1		-0.5 to +0.1		-0.3 to 0.3	
After 2000°F (1093°C)	-0.7 to -0.1		-0.7 to -0.1		-0.7 to -0.1	

Typical Chemical Analysis (%)

(Calced Basis)

Alumina (Al ₂ O ₃)	63.3
Silica (SiO ₂)	32.3
Lime (CaO)	1.5
Iron Oxide (Fe ₂ O ₃)	0.9
Titania (TiO ₂)	1.7
Magnesia (MgO)	0.1
Alkalis (Na ₂ O+K ₂ O)	0.2

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

Brand Code: 0855

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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