



PRODUCT DATA

Brand Name:

EZ CUBED® 35-30

Description:

SELF FLOW/PUMPABLE /LOW CEMENT/SIC CONTAINING THERMAL SHOCK AND CORROSION RESISTANT 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	3.50 to 4.50%
Self Flow/Pump Casting	5.50 to 6.50%
Shotcrete	4.80 to 5.80%

Dry Material Required per Cubic Foot:

Vibration Casting	153 - 157 lbs
Self Flow/Pump Casting	149 - 153 lbs
Shotcrete.....	153 - 157 lbs

Bulk Density (pcf)

	<u>Vibration Casting Data</u>		<u>Self Flow/Pump Casting Data</u>		<u>Shotcrete Data</u>	
After 220°F (105°C)	154 - 160	(2.47 - 2.56 g/cm ³)	148 - 154	(2.37 - 2.47 g/cm ³)	150 - 154	(2.40 - 2.47 g/cm ³)
After 1500°F (815°C)	152 - 158	(2.43 - 2.53 g/cm ³)	149 - 155	(2.39 - 2.48 g/cm ³)	148 - 152	(2.37 - 2.43 g/cm ³)
After 2000°F (1093°C)	152 - 158	(2.43 - 2.53 g/cm ³)	148 - 154	(2.37 - 2.47 g/cm ³)	148 - 152	(2.37 - 2.43 g/cm ³)

Cold Crushing Strength (psi)

After 220°F (105°C)	14900 - 20900	(1043 - 1463 kg/cm ²)	7100 - 13100	(497 - 917 kg/cm ²)	10000 - 15000	(700 - 1050 kg/cm ²)
After 1500°F (815°C)	14000 - 20000	(980 - 1400 kg/cm ²)	8000 - 14000	(560 - 980 kg/cm ²)	9000 - 14000	(630 - 980 kg/cm ²)
After 2000°F (1093°C)	13200 - 19200	(924 - 1344 kg/cm ²)	7100 - 13100	(497 - 917 kg/cm ²)	10000 - 14000	(700 - 980 kg/cm ²)

Modulus of Rupture (psi)

After 220°F (105°C)	1700 - 2700	(119 - 189 kg/cm ²)	1200 - 2200	(84 - 154 kg/cm ²)	1400 - 2400	(98 - 168 kg/cm ²)
After 1500°F (815°C)	1800 - 2800	(126 - 196 kg/cm ²)	1100 - 2100	(77 - 147 kg/cm ²)	1500 - 2500	(105 - 175 kg/cm ²)
After 2000°F (1093°C)	1700 - 2700	(119 - 189 kg/cm ²)	1100 - 2100	(77 - 147 kg/cm ²)	1500 - 2500	(105 - 175 kg/cm ²)

Thermal Conductivity (K Factor)

	<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)	32.9	4.75	21.8	3.14	21.6	3.12		
After 1500°F (815°C)	26.0	3.75	18.4	2.65	20.9	3.01		
After 2000°F (1093°C)	29.1	4.20	18.0	2.60	21.0	3.03		

Apparent Porosity (%)

After 220°F (105°C)	5 - 9	10 - 14	10 - 14
After 1500°F (815°C)	10 - 14	13 - 17	13 - 17

Permanent Linear Change (%)

After 1500°F (815°C)	-0.5 to 0.1	-0.4 to 0.2	-0.3 to +0.1
After 2000°F (1093°C)	-0.6 to 0.0	0.0 to 0.6	-0.4 to 0.0

Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al ₂ O ₃)	36.5
Silicon Carbide (SiC)	29.8
Silica (SiO ₂)	29.1
Lime (CaO)	1.5
Iron Oxide (Fe ₂ O ₃)	0.9
Titania (TiO ₂)	1.1
Magnesia (MgO)	0.3
Alkalis (Na ₂ O+K ₂ O)	0.8

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

Brand Code: 0850

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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