



PRODUCT DATA

Brand Name: EZ CAST® 3400

Description: EZ CAST® 3400 is a self-flowing, 99% alumina, low cement castable for applications up to 3400°F. It has low porosity and low permeability without a sacrifice in thermal shock resistance. This product is not recommended for pumping.

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

Maximum Service Temperature: 3400°F (1871°C)

Material Required Per Cubic Foot:

Self Flow Casting 187 - 191 lb

Typical Water Required for Mixing (by weight) :

Self Flow Casting 4.8 - 5.3%

Self Flow Cast Data

Bulk Density (pcf)

After 1500°F (815°C)	187 - 191	(2.99 - 3.06 g/cm ³)
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Cold Crushing Strength (psi)

After 1500°F (815°C)	2000 - 4000	(140 - 280 kg/cm ²)
After 2000°F (1093°C)	4000 - 7000	(280 - 490 kg/cm ²)

Modulus of Rupture (psi)

After 1500°F (815°C)	700 - 1100	(49 - 77 kg/cm ²)
After 2000°F (1093°C)	1500 - 2000	(105 - 140 kg/cm ²)

Permanent Linear Change (%)

After 1500°F (815°C)	-0.2 to 0.0
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Apparent Porosity (%)

After 1500°F (815°C)	14 - 17
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Thermal Conductivity (K Factor)

Mean Temperature	<u>BTU/ft²/hr/°F/inch</u>	<u>W/mK</u>
1500°F (815°C)	16.9	2.45
2000°F (1093°C)	17.2	2.50
2500°F (1371°C)	15.0	2.18

Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al ₂ O ₃)	98.7
Silica (SiO ₂)	Trace
Titania (TiO ₂)	Trace
Iron Oxide (Fe ₂ O ₃)	Trace
Lime (CaO)	1.1
Magnesia (MgO)	Trace
Alkalies (Na ₂ O+K ₂ O)	0.1

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

Brand Code: 0824

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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