



**CLAYBURN INDUSTRIES LTD.**

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**TECHNICAL DATA**

**CLAYBURN CLEANCAST 33Z**

CLAYBURN CLEANCAST 33Z is an alumina-zircon aggregate based, thermal shock resistant, low cement castable. CLAYBURN CLEANCAST 33Z has excellent resistance to abrasion and alkali attack. Can be used for applications in the cement, lime and glass industries.

**SERVICE TEMPERATURE:** 2800°F  
**MATERIAL REQUIRED FOR ESTIMATING:** 195 lbs./cu. ft.  
**CASTING WATER:** 4 – 4.75%

**TYPICAL CHEMICAL ANALYSIS**  
(Calcined Basis)

Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	ZrO <sub>2</sub>	CaO	SiC
38-40	20-21	0.4	tr	32-33	1.5	4.9

**TYPICAL PHYSICAL PROPERTIES**

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %
250	1740	6941	Nil
1500	2055	9566	-0.10
2000	2250	10875	-0.20
2500	2835	12850	-0.20

**APP. POROSITY:** 14.6% After 1500°F (vibcast)  
**ABRASION LOSS AFTER 1500°F:** 3-4 cc (cast) 4-6 cc (pumped)  
**THERMAL CONDUCTIVITY (ASTM C-1113):** 16 BTU-in/hr-ft<sup>2</sup>-°F @ 1200°F

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The data represents typical average results obtained by testing under ASTM or other acceptable procedures as required. They are subject to normal variations and should not be used for specifications.