



**CLAYBURN INDUSTRIES LTD.**

33765 PINE STREET  
ABBOTSFORD, BC  
CANADA V2S 5C1  
PHONE: (604) 859-5288  
FAX: (604) 859-0424

## TECHNICAL DATA

### **CLAYBURN CAST 38 SPINEL**

CLAYBURN CAST 38 SPINEL is a high spinel content, low-cement castable containing an in-situ reaction formed alumina-magnesia spinel mineralogy. The use of advanced particle packing technology has reduced the porosity to very low levels. The reaction bond also promotes high refractoriness, which combined with the low porosity, results in excellent corrosion resistance to molten steel. This product is recommended for application in steel ladle precast bottoms, well blocks, impact pads, electric furnace runners, and other applications where the spinel bond will provide increased resistance to iron oxide attack.

<b>SERVICE TEMPERATURE:</b>	3200°F
<b>MATERIAL REQUIRED FOR ESTIMATING:</b>	188 lbs./cu. ft.
<b>CASTING WATER (Approx. by Wt.):</b>	4.85%
<b>INSTALLATION METHOD:</b>	Vibracast

### 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>	MgO	TiO <sub>2</sub>	CaO
85.2	3.3	0.5	7.9	1.5	1.3

### TYPICAL PHYSICAL PROPERTIES

Firing Temp °F	Cold Crushing Strength, psi	MOR (psi)	Linear Change %	Density (lb/ft <sub>3</sub> )	Porosity (%)
220	9226	1919	0.0	185.4	10.62
1500	7627	1451	-0.2	183.5	12.68
2750	14208	3423	+0.5	180.1	15.22

**Spinel Content:** 38.2% after 2750 firing

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