



TECHNICAL DATA SHEET

**BAUXCAST 7 AL** is a mullite and bauxite based, low cement, high alumina castable. It was designed for use in molten aluminum contact areas where high strengths, excellent abrasion resistance, volume stability and non wetting by the molten metal is required.

**SERVICE TEMPERATURE:** 3100°F  
**MATERIAL REQUIRED FOR ESTIMATING:** 165 lbs./cu. ft.  
**CASTING WATER:** 5.5 - 6.5%

**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>	MgO	CaO	Alkalies	P <sub>2</sub> O <sub>5</sub>	Other
70	25	0.8	1.5	0.1	1.9	0.4	0.1	2

**TYPICAL PHYSICAL PROPERTIES**

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %
250	2,218	9,400	Nil
1500	2,186	8,300	-0.1
2000	3,067	10,400	-0.2

**Thermal Cycle Loss @2000°F:** 25%

**HOT MOR @1500°F (Orton):** 4,390psi

**ABRASION LOSS After 1500°F:** <7 cc

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The data presented 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 specification purposes.