



**TECHNICAL DATA SHEET**

**LIQUIBOND 60** is an alumina and Mullite based, chemically bonded refractory castable having excellent thermal shock resistance, high refractoriness and strength at high temperatures.

**LIQUIBOND 60** is recommended for aluminum furnace applications such as belly bands, sills and troughs. It also may be used for burner blocks and other special shapes.

**SERVICE TEMPERATURE:** 3000°F  
**MATERIAL REQUIRED FOR ESTIMATING:** 153 lbs/cf  
**STORAGE LIFE:** 1 year  
**BINDER ADDITION:** 12.5 – 13.5% by weight

**TYPICAL CHEMICAL ANALYSIS (includes binder) (Calcined Basis)**

Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	Fe <sub>2</sub> O <sub>3</sub>
63	28	3.3	<1

**TYPICAL PHYSICAL PROPERTIES**

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	“K” Factor Btu-in/hr-ft <sup>2</sup> °F	Linear Change %
250	580 - 700	1,350 – 2,100	10.5	+0.3
1,500	650 - 850	2,900 – 3,400	9.23	0.0
2,500	1,500 – 1,845	5,500 – 6,100	9.10	+0.1
2,800	1,570 – 1,790	5,290 – 7,700	9.68	+2.4
3,000	1,300 – 1,475	4,360 – 7,260	--	+0.5

**HOT MOR @ 2500°F:** 535 psi  
**HOT MOR @ 2700°F:** 346 psi

**ABRASION LOSS after 1500°F:** 12 cc

**THERMAL SHOCK RATING , USS CUBE TEST:** Excellent

**POROSITY after 1500°F:** 17.8%

**PACKAGING:** 50 lb. Bags, 80 per Pallet (4000 lbs.)

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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.