



RENO REFRACTORIES, INC

LIQUIBOND 90

TECHNICAL DATA SHEET

LIQUIBOND 90 is a very high pure alumina, chemically bonded refractory having excellent thermal shock resistance, high refractoriness and strength at high temperatures.

LIQUIBOND 90 is recommended for aluminum furnace applications such as belly bands, sills and troughs and for any application where an abrasion and chemically resistance castable or patch is needed.

SERVICE TEMPERATURE: 3200°F
MATERIAL REQUIRED FOR ESTIMATING: 175 lbs/cf
BINDER ADDITION: 12 - 14% by weight

TYPICAL CHEMICAL ANALYSIS (includes binder) (Calcined Basis)

Al ₂ O ₃	SiO ₂	P ₂ O ₅	Fe ₂ O ₃
90	1 – 2	2-3	<1

TYPICAL PHYSICAL PROPERTIES

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %
750		2,550 - 4,000	
1,500	800 – 1,400	2,700 - 3,800	-0.2
2,000	1,900 – 2,400	4,200 - 5,800	-0.3
2,500		6,200 - 7,650	-0.4

ABRASION LOSS After 2000°F: <7 cc

ABRASION LOSS After 2500°F: <4 cc

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.

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