



TECHNICAL DATA SHEET

LIQUIBOND 86 is a high alumina very pure, chemically bonded refractory having excellent thermal shock resistance, high refractoriness and strength at high temperatures.

LIQUIBOND 86 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: 166 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
85	2 – 3	3-4	<1

TYPICAL PHYSICAL PROPERTIES

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %
1,500	800 – 1,400	6,400 – 7,000	-0.2
2,500	1,750 – 1,900	9,000 – 11,000	-0.4

HMOR at 1500°F: 1,108 psi
THERMAL SHOCK AFTER 2000°F: 3% Gain
ABRASION LOSS After 1500°F: <8 cc
ABRASION LOSS After 2500°F: <4 cc

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

23-148 A

186100 – 11/20/23

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.