



TECHNICAL DATA SHEET

LIQIBOND 50 is an alumina and mullite based, chemically bonded refractory having excellent thermal shock resistance, high refractoriness and strength at high temperatures.

LIQIBOND 50 is recommended for aluminum furnace applications such as sills and troughs. It also may be used for burner blocks and other special shapes. This material may be used anywhere fast, reliable set times, and good strengths are needed.

SERVICE TEMPERATURE: 3000°F
MATERIAL REQUIRED FOR ESTIMATING: 160 lbs/cf
STORAGE LIFE: 1 year
BINDER ADDITION: 12 - 13% by weight

TYPICAL CHEMICAL ANALYSIS (includes binder) (Calcined Basis)

| Al ₂ O ₃ | SiO ₂ | P ₂ O ₅ | Fe ₂ O ₃ |
|--------------------------------|------------------|-------------------------------|--------------------------------|
| 55 | 34 | 3.3 | <1.5 |

TYPICAL PHYSICAL PROPERTIES

| Prefired to °F | Modulus of Rupture, psi | Cold Crushing Strength, psi | Linear Change % |
|----------------|-------------------------|-----------------------------|-----------------|
| 1,500 | 900 – 1,050 | 3,200 – 3,600 | -0.2 |
| 2,400 | 3,100 – 3,400 | 8,700 – 10,000 | -0.4 |

ABRASION LOSS After 2000°F: <11 cc
ABRASION LOSS After 2500°F: <9 cc

PACKAGING: 55 lb. Bags, 72 per Pallet (3960 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.