

PRODUCT

**ULTRA-TEK 50 ALK GUN MIX**  
**LOW CEMENT**  
**ALKALI RESISTANT GUN MIX**

**REFRACTORIES**

**TECHNICAL DATA**

PHYSICAL PROPERTIES

Maximum Service Temperature	3000°F
Lbs. Required Dry Mix per Cu. Ft.	141 lbs.
% Water by Weight Required for Gunning	9%
Bulk Density After Drying	145 lbs./cu.ft.

Modulus of Rupture

After Drying	900 – 1400 psi
At 1500°F	1000 – 1400 psi
At 2550°F	400 – 700 psi

Cold Crushing Strength

Dried 230°F	3500 – 5500 psi
After 1500°F	3500 – 5500 psi

Permanent Linear Change

After 1500°F	0.0 to -0.2%
After 2550°F	0.0 to +0.4%

Abrasion Loss (ASTM C-704)

Dried 230°F	6.0 to 8.0 cc
After 1500°F	5.0 to 7.0 cc

CHEMICAL ANALYSIS

Silica	[SiO <sub>2</sub> ]	44.0%
Alumina	[Al <sub>2</sub> O <sub>3</sub> ]	50.7%
Iron Oxide	[Fe <sub>2</sub> O <sub>3</sub> ]	0.7%
Lime	[CaO]	2.9%
Titania	[TiO <sub>2</sub> ]	1.2%
Trace Minerals & Alkalis		0.5%

NOTE: All data subject to reasonable deviation and should not be used for specification purposes.

0180

