

PRODUCT

**ULTRA-TEK 85 GUN MIX**  
**LOW CEMENT HIGH ALUMINA GUN MIX**

**REFRACTORIES**

**TECHNICAL DATA**

PHYSICAL PROPERTIES

Maximum Service Temperature (cyclic conditions)	3200°F
Lbs. Required Dry Mix Per Cu. Ft.	162 lbs.
Bulk Density After Drying	165 lbs./cu. ft.
Apparent Porosity Dried to 500°F	15 – 18 %
<u>Cold Crushing Strength</u>	
After Drying to 230°F	1000 – 2000 psi
After Firing to 1500°F	2000 – 4000 psi
<u>Modulus of Rupture</u>	
MOR After Drying	400 – 700 psi
HMOR at 1500°F	1900 – 2500 psi
HMOR at 2550°F	300 – 500 psi
<u>C-704 Abrasion Test</u>	
Abrasion Loss after 1500°F	9 – 12 cc
<u>Permanent Linear Change</u>	
After 1500°F	0.0 to -0.2%
After 2000°F	0.0 to -0.4%
After 2730°F	0.0 to +0.7%

CHEMICAL COMPOSITION

Silica	(SiO <sub>2</sub> )	10.3%
Alumina	(Al <sub>2</sub> O <sub>3</sub> )	84.0%
Titania	(TiO <sub>2</sub> )	2.5%
Iron Oxide	(Fe <sub>2</sub> O <sub>3</sub> )	1.0%
Lime	(CaO)	1.9%
Other		0.3%

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

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