

PRODUCT

ULTRA-TEK 45 GUN MIX
LOW CEMENT GUN MIX

REFRACTORIES

TECHNICAL DATA

PHYSICAL PROPERTIES

Maximum Service Temperature	2800°F
Lbs. Required Dry Mix per Cu. Ft.	140 lbs.
% Water by Weight Required for Gunning	8.5% approx.
Bulk Density After Drying	145 lbs./cu.ft.

Modulus of Rupture

After Drying	800 – 1200 psi
At 1500°F	800 – 1200 psi
At 2550°F	300 – 600 psi

Cold Crushing Strength

Dried 230°F	3000 – 5000 psi
After 1500°F	3000 – 5000 psi

Permanent Linear Change

After 1500°F	0.0 to -0.2%
After 2910°F	0.0 to +0.4%

CHEMICAL ANALYSIS

Silica	[SiO ₂]	46.9%
Alumina	[Al ₂ O ₃]	49.6%
Iron Oxide	[Fe ₂ O ₃]	0.7%
Lime	[CaO]	2.0%
Titania	[TiO ₂]	0.4%
Trace minerals		0.4%

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

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ULTRA-TEK 45 Gun Mix is a low cement gun mix designed to be installed by dry gunning without predampening. Ideal installation temperature for the material should be between 70°F and 90°F. In cold weather this can be accomplished by preheating material or using hot water when gunning.

Material should be cured after installation for 24 to 48 hours. Careful heatup is required to remove any free water due to the low permeability of this product. ULTRA-TEK 45 Gun Mix contains QF Fibers to assist in dryout procedures.

ULTRA-TEK 45 Gun Mix is recommended for applications requiring high intermediate temperature strength as this product exhibits properties similar to fireclay brick shapes at intermediate temperatures but load bearing properties drop off rapidly above 2500°F.