

ULTRA-TEK 50 GUN MIX
LOW CEMENT GUN MIX

PHYSICAL PROPERTIES

Maximum Service Temperature	3100°F
Lbs. Required Dry Mix Per Cu. Ft.	140 lbs.
% Water by Weight Required for Gunning	8.5% (approx.)
Bulk Density After Drying	150 lbs./cu.ft.

Modulus of Rupture

After Drying	1000 – 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 2910°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 ₂]	40.5%
Alumina	[Al ₂ O ₃]	54.5%
Iron Oxide	[Fe ₂ O ₃]	0.7%
Lime	[CaO]	2.9%
Titania	[TiO ₂]	1.4%

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

6060



ULTRA-TEK 50 Gun Mix is a low cement castable designed to be installed by dry gunniting. Casting mixture should be between 70°F and 90°F when installing. In cold weather this can be accomplished by preheating material, water or both.

Material must be placed within 25 minutes, and cured for 24 to 48 hours. Careful heatup is required to remove any free water due to the low permeability of this product. ULTRA-TEK 50 Gun Mix contains QF Fibers to assist in dryout procedures.

ULTRA-TEK 50 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.