

PRODUCT

ULTRA-TEK 98
SUPERIOR HOT STRENGTH
HIGH DENSITY CASTABLE

REFRACTORIES

TECHNICAL DATA

PHYSICAL PROPERTIES

Maximum Service Temperature	3350°F
Lbs. Required Dry Mix per Cu.Ft.	192 lbs.
% Water by Weight Required for Casting	4 – 6%
Bulk Density After Drying	195 lbs./cu.ft.

Modulus of Rupture

After Drying	1400 – 2200 psi
At 1500°F	800 – 1200 psi
At 2500°F	1000 – 1600 psi
At 2700°F	1300 – 2000 psi

Cold Crushing Strength

After 1500°F	6000 – 10000 psi
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Permanent Linear Change

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

CHEMISTRY

Silica	[SiO ₂]	0.1%
Alumina	[Al ₂ O ₃]	97.8%
Lime	[CaO]	1.9%
Titania	[TiO ₂]	0.1%
Trace Minerals		0.1%

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

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MT. SAVAGE
SPECIALTY REFRACTORIES COMPANY • Pittsburgh, Pa. 15127 •

ULTRA-TEK 98 is a low cement castable that must be installed using high energy vibrator techniques. Water content is critical to obtain data sheet properties. Casting mixture should be between 70°F and 90°F when casting and in cold weather this can be accomplished by preheating material, water or both.

Material must be mixed for 5 to 8 minutes, placed within 25 minutes, and left in the mold for 24 to 48 hours. Careful heatup is required to remove any free water due to the low permeability of this product. ULTRA-TEK 98 contains QF Fibers to assist in dryout procedures.

ULTRA-TEK 98 is a superior low cement castable with excellent load bearing properties, slag resistance and abrasion resistance at all temperatures. It is recommended in applications where high temperatures and slag resistance requirements exceed the limits of other low cement castables.