

DELTA t CRETE 23-M LI GUN MIX
LOW IRON, HIGH STRENGTH, INSULATING GUN MIX

PHYSICAL PROPERTIES

Maximum Service Temperature	2300°F
Lbs. Required Dry Mix per Cu. Ft.	70 – 85 lbs.
Bulk Density After Drying at 230°F	76 – 91 lbs./cu.ft.
<u>Cold Crushing Strength</u>	
After Drying at 230°F	750 – 2000 psi
After Firing at 1500°F	550 – 1500 psi
MOR After Drying at 230°F	175 – 450 psi
<u>Permanent Linear Change</u>	
After Drying at 230°F	Negligible
After Heating to 1500°F	0.0 to -0.5%
After Heating to 2300°F	-0.6 to -1.1%

CHEMICAL ANALYSIS

Silica	[SiO ₂]	41.0%
Alumina	[Al ₂ O ₃]	40.9%
Iron Oxide	[Fe ₂ O ₃]	1.5%
Lime	[CaO]	12.7%
Titania	[TiO ₂]	1.0%
Other		2.9%

THERMAL CONDUCTIVITY BTU/SQ.FT./HR./°F/IN. (at 76 pcf)

At 500°F	2.1
At 1000°F	2.4
At 1500°F	2.7

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

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(SEE OTHER SIDE)



DELTA t CRETE GUNNING MIXES

Proper gunning techniques are required to achieve the desired properties of DELTA t CRETE gun mixes. These techniques include:

1. Pre-dampen material to conventional gun mix levels. When properly pre-dampened material is squeezed by hand, it will form a ball. Thumb pressure will break the ball cleanly. If the material does not form a ball or break cleanly, the amount of pre-dampening water used should be adjusted.
2. Sufficient water volume and pressure is needed at the nozzle. Lightweight mixes require a lot of water; make sure the supply is sufficient.
3. Use the lowest air pressure practical to convey the material. Excess air pressure will densify the lightweight gun mix and can cause excessive rebounds.
4. The nozzle should be held no more than 4 feet from the target wall. 2 to 3 feet is most desirable. This allows the installation at lower air pressures, preventing densification.

Use of proper techniques will lead to installed densities in the lower end of the published range, which is desirable for lightweight gun mixes.

For further instructions, check out www.mtsavage.com or contact your local Mt. Savage Specialty Refractories Company representative.