



RENO REFRACTORIES, INC

REFCAST LOCEM 7020

TECHNICAL DATA SHEET

REFCAST LOCEM 7020 is a Mullite based; silicon carbide enhanced low cement castable.

**SERVICE TEMPERATURE:** 2500°F  
**MATERIAL REQUIRED FOR ESTIMATING:** 155 lbs./cu ft  
**CASTING WATER:** 5 - 6%

**FEATURES:**

- Excellent resistance to aluminum penetration
- Good abrasion resistance
- Thermal shock resistance below 2000°F
- Resists alkali attack and oxide build-up
- Applications include aluminum troughs, impact area, tilter boxes and tap blocks

**TYPICAL CHEMICAL ANALYSIS (Reducing Conditions)**

Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	SiC	Alkalies	Other
54.4	20.2	0.8	1.7	20.8	0.4	0.4

**TYPICAL PHYSICAL PROPERTIES (Reducing conditions above 250°F.)**

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Abrasion Loss cc	Linear Change %
250	2,778	8,880	--	+0.2
1000	3,719	10,500	--	+0.1
1500	3,683	11,275	5.0	-0.2
2000	3,615	11,439	4.2	0.0

**HOT MOR @1500°F (Orton):** 5,390 psi

**“K” FACTOR @ 1500°F mean temp:** 20 Btu-in/hr-ft<sup>2</sup>-°F

**PACKAGING:** 55 lb. Bags, 72 per Pallet (3960 lbs.)

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The data presented represents typical average results obtained by testing under ASTM or other acceptable procedures as required. They are subject to normal variations and should not be used for specification purposes.

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