



RENO REFRACTORIES, INC

Reno Cast 85 TSR

TECHNICAL DATA SHEET

Reno Cast 85 TSR is a low cement castable based on mullite for use where good thermal shock or strength are needed. Typical applications include electric furnace deltas or where high strength is required.

Service Temperature: 3100°F/1748°C
Water: 5.0-5.5%
Installation: Vibration Casting

Wt. Required for Estimating: 177 lbs/ft³
Storage Life: 6 months

TYPICAL CHEMICAL ANALYSIS (% Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	CaO	MgO	Alkalies
84	10.2	0.84	2.43	2.21	0.1	0.13

TYPICAL COLD PHYSICAL PROPERTIES

Prefired to °F	Cold Modulus of Rupture (psi)	Cold Crushing Strength (psi)	Density (pcf)	Porosity (%)	Linear Change (%)	Abrasion Loss (cc)	Thermal Shock Loss (%)
250	2325	14,500	179.0	5.6	-0.5		
750	2000	14,500	178.0	9.7	-0.4		
1500	1700	14,275	177.1	14.5	-0.5	12.8	
2000	1300	10,100	176.4	14.9	-0.4		-7.3
2500	1925	10,500	174.8	17.1	0.0	4.4	
2800	2450	14,725	180.5	11.6	-1.0	2.1	
3000	2250	16,000	186.5	5.7	-1.9		

Dryout Schedule: E

23-145 D

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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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