



TECHNICAL DATA SHEET

Reno Cast 70 TSR is a mullite based low cement castable with excellent thermal shock resistance and strength. It can be used in electric furnace deltas or other high thermal shock applications.

Service Temperature:	3100°F/1748°C	Wt. Required for Estimating:	163 lbs/ft ³
Water:	6.0-6.5%	Storage Life:	6 months
Installation:	Vibration Casting		

TYPICAL CHEMICAL ANALYSIS (% Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	CaO	MgO	Alkalies
68.67	25.65	0.91	1.91	2.49	0.08	0.19

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	2000	13,400	167.2	5.7	-0.5		
750	1800	12,750	161.9	10.5	-0.6		
1500	2200	14,950	162.5	15.1	-0.6	8.8	
2000	1675	10,400	160.4	16.0	-0.6		+16.7
2500	1550	8650	154.6	18.1	+0.5	11.9	
2800	1825	9450	151.7	19.9	+2.0	7.6	
3000	1725	8650	150.9	18.9	+1.1		