



TECHNICAL DATA SHEET

Reno Cast 98 TSR/NS is a silica free high alumina low cement vibratable castable. Designed for precast re-heat hearth blocks.

- Low Porosity
- Volume stable
- Resistant to Steel Scale
- Excellent Thermal Shock Resistance

Service Temperature: 3000°F / 1648°C
 Liquid Type: Water
 Addition Quantity: 4.75 – 5%

Wt. Required for Estimating: 199 lbs./ft³
 Storage Life: 6 months

TYPICAL CHEMICAL ANALYSIS (% Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	CaO	Alkalies
98.2	< 0.05	< 0.05	< 0.01	1-2	< 0.15

TYPICAL COLD PHYSICAL PROPERTIES

Prefired to °F	Cold Modulus of Rupture (psi)	Cold Crushing Strength (psi)	Density (pcf)	Porosity (%)	Linear Change (%)	Thermal Cycle Change (%)
250	554	4,635	201	9.9	0.0	
1500	432	4,174	199	13.4	0.0	
2000	1,151	9,880	198	13.2	0.0	-8
2500	2,027	14,755	197	14.1	0.22	
2800	2,345	12,397	196	14.8	0.22	
3000	2,821	13,933	199	13.5	0.0	

Standard Cure Out Schedule: Schedule E

Packaging: 72 / 55 lb. bags per pallet

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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.