



TECHNICAL DATA SHEET

Reno Mag Cast 92 is a no cement periclase castable for general basic applications including electric furnace blocks and runners and RH degassers.

Service Temperature: 3100°F/1704°C
 Liquid Type: Water
 Addition Quantity: 6.25-6.5%

Wt. Required for Estimating: 164 lbs/ft³
 Storage Life: 6 months

TYPICAL CHEMICAL ANALYSIS (% Calcined Basis)

MgO	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	Alkalies	Other
92.10%	3.52%	3.36%	0.16%	0.84%	0.01%	0.01%

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 (%)	Permeability (mDarcys)	Surface Area (m ² /g)
250	913	4,217	164	21.91	-0.02			75.29	5.81
750	808	3,237	163	19.70	-0.18			3.73	6.08
1500	1,263	4,387	164	18.47	-0.17	2.14		10.86	1.99
2000	2,334	6,080	162	18.16	0.25		-19.38%	14.20	0.39
2500	1,790	5,336	168	18.00	-0.54	2.46		82.23	0.08
2800	1,650	5,303	169	18.38	-1.02			162.06	0.08
3000	1,510	5,128	168	17.20	-1.67	2.62		523.88	0.05
3100	2,697	3,045	168	22.79	-1.39			606.14	0.01

TYPICAL HOT PHYSICAL PROPERTIES

Prefired to °F	Hot Modulus of Rupture (psi)	Thermal Conductivity (BTU/ft ² /hr/in/°F)	Thermal Expansion (%)
250		15.2	
750		13.8	
1500		12.9	
2000		12.5	
2500		12.2	
2800		12.1	
3000		12.0	
3100		11.9	