



RENO REFRACTORIES, INC

Reno Mag Cast 92

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
Curing: Minimum of 70 F for 24 hours or longer for lower temperatures

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	

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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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