



RENO REFRACTORIES, INC

Reno Cast 80 HP

TECHNICAL DATA SHEET

Reno Cast 80 HP is a 3200°F high strength low cement castable mix that has combined high strength and excellent abrasion resistance. **Reno Cast 80 HP** is installed using hand packing method. Refer to **Reno Cast 80 P** for cast or pumped applications

Service Temperature: 3200°F / 1760°C
Liquid Type: Water
Addition Quantity: 4.75–5.25% Casting

Wt. Required for Estimating: 170 -175lbs/ft³
Storage Life: 6 months
Shotcrete Activator: 1.5% Pre -Diluted Sodium Silicate

TYPICAL CHEMICAL ANALYSIS(% Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	CaO	MgO	Alkalis	Other
80	14	0.7	2.3	1.8	0.1	0.4	0.7

TYPICAL COLD PHYSICAL PROPERTIES

Temperature	Cold Modulus of Rupture (psi)	Cold Crushing Strength (psi)	Linear Change (%)	Abrasion Loss (cc)
1500	2500 - 3500	18000 - 23000	-0.1 to -0.4	<4 cc
2500	2000 – 3000	16000 – 21000	0.0 to <-0.3	

Temperature	Cold Modulus of Rupture (MPa)	Cold Crushing Strength (MPa)	Linear Change (%)	Abrasion Loss (cc)
815	17 - 24	124 - 158	-0.1 to -0.4	<4 cc
1371	14 - 20	110 - 145	0.0 to <-0.3	

PACKAGING: 55 lb. (25 Kg) Bags, 72 per Pallet @ 3,960 lbs (1,800 kg)

23-033

PIN# 613620

04/5/2023

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.

Reno Refractories, PO Box 201, Morris, Alabama 35116
205.647.0240 | Toll Free 1.800.741.7366