



RENO REFRACTORIES, INC

Reno Cast 110

TECHNICAL DATA SHEET

Reno Cast 110 is a vibration cast grade that has abrasion resistance and high strength where insulating properties are required.

Reno Cast 110 is an excellent choice for operating conditions where abrasion, high strength and low thermal conductivity properties are required.

Service Temperature:	2500°F / 1370°C	Wt. Required for Estimating:	111 lb/ft ³ 1775 kg/m ³
Liquid Type:	Water	Storage Life:	6 months
Mix Water:	12.0 - 13.0%		

TYPICAL CHEMICAL ANALYSIS(% Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	CaO	Alkalis
48.8	39.4	1.4	0.8	8.2	1.3

TYPICAL COLD PHYSICAL PROPERTIES

Temperature °F	Cold Modulus of Rupture (psi)	Cold Crushing Strength (psi)	Density (lb/ft ³)	PLC (%)	Abrasion Loss (cc)
1500°F	900 - 1100	6000 - 9000	110 - 114	-0.1 to -0.4	<12 (Typical 9-11)
2000	800 - 1000	5000 - 8000	-		

Temperature °F	Cold Modulus of Rupture (MPa)	Cold Crushing Strength (MPa)	Density (kg/m ³)	PLC (%)	Abrasion Loss (cc)
815°C	6.2 - 7.6	48.3 - 62	1730 - 1795	-0.1 to -0.4	<12 (Typical 9-11)
1093°C	5.5 - 6.9	34.5 - 55	-		

TYPICAL HOT PHYSICAL PROPERTIES

Temperature °F	Thermal Conductivity (BTU/ft ² /hr/in/°F)	Temperature °C	Thermal Conductivity W/(m K)
500	6.3	260	0.91
1000	6.1	538	0.88
1500	6.2	815	0.90

PACKAGING: 50 lb. Bags, 40 per Pallet (2,000 lbs.)

RB

PIN# 611230

02-22-2023

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.

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