RENO REFRACTORIES, INC

Reno Cast 9010 CRM

TECHNICAL DATA SHEET

Reno Cast 9010 CRM is a high alumina low cement chrome, tabular alumina based castable. Castable should be installed using vibration casting methods.

- Abrasive Resistant
- Excellent Corrosion Resistance
- Low Thermal Cycle Loss

Service Temperature:	3400°F	Wt. Required for Estimating:	201 lbs/ft^3
Liquid Type:	Water	Liquid Quantity:	4 – 5%
Top Grain Size	3 mesh	Storage Life:	6 months
Installation Method:	Vibration Cast		

TYPICAL CHEMICAL ANALYSIS (% Calcined Basis)

Al_2O_3	Cr_2O_3	SiO_2	Fe_2O_3	TiO_2	CaO	MgO	Alkalies	Other
88	10	<0.1	<0.05	<0.05	1.5	0.2	<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 (%)	Abrasion Loss (cc)
750	3,417	11,388	202	7.4	-0.1		
1500	2,268	8,007	201	13.1	-0.1		<8
2000	4,239	10,754	200	13.3	0.1	-26.6	
2500	9,389	35,128	198	13.4	0.2		<3
3000	7,365	30,537	196	12.7	0.4		<3

TYPICAL HOT PHYSICAL PROPERTIES

Prefired to °F	Initial Thermal Expansion (%)	Thermal Conductivity (BTU/ft^2/hr/in/°F)
250	0.05	15.4
750	0.25	15.8
1500	0.60	16.2
2000	0.90	16.3
2500	1.30	16.4
2800	1.50	16.4

Coefficient of Thermal Expansion: 3.24 x 10^{-6}

RB 22-153

PIN#619000 10/19/2022

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