



TECHNICAL DATA SHEET

Reno ElectroCast™ 10 CRM is a tabular alumina based no cement castable with chrome oxide addition.

- Based on Reno’s proprietary Electro Chemical bond system featuring an electrolyte for maximum performance.
- Recommended for use in ductile iron contact and in high wear areas along tundish slag lines.
- Also recommended for other metal transfer shapes and other extreme applications such as carbon black furnaces.

Service Temperature:	3000°F/1649°C	Wt. Required for Estimating:	195 lbs/ft ³
Liquid Type:	E10	Storage Life:	6 months
Addition Quantity:	3.75-4.75%	Shotcrete Binder:	N/A

TYPICAL CHEMICAL ANALYSIS (% Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	Cr ₂ O ₃	MgO	Other
89	0.4	0.7	7.7	1.8	0.4

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 Change (%)	Permeability (mDarcys)	Surface Area (m ² /g)
250	886	3,639	194	12.20	-0.09			39.493	2.556
750	718	3,728	195	13.24	-0.04			9.516	3.216
1500	2,525	11,020	195	13.45	0.02	3.24		8.453	2.177
2000	6,848	28,738	196	12.91	-0.20		38%	14.366	0.627
2500	8,314	18,122	197	11.44	-0.42	3.15		19.129	0.232
2800	7,526	14,451	195	11.63	-0.25			30.933	0.149

TYPICAL HOT PHYSICAL PROPERTIES

Prefired to °F	Hot Modulus of Rupture (psi)	Thermal Expansion (%)	Thermal Conductivity (BTU/ft ² /hr/in/°F)
250		0.06	17.5
750		0.28	16.1
1500	1,583	0.64	15.4
2000		0.84	14.9
2500	1,493	0.75	14.6
2750	850	0.94	14.5
3000			14.4

Coefficient of thermal expansion: 3.22E⁻⁶ in/in/°F

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.