RENO REFRACTORIES, INC

Reno ElectroPump™ 1052 AR

TECHNICAL DATA SHEET

ElectroPump™ 1052 AR is a high alumina, silicon-carbide, zircon, no cement castable designed for cast/pump installations.

- Based on Reno's propriety Electro-Chemical bond system which utilizes a nano fluid electrolyte.
- Extremely small pore size of bond prevents any vapor penetration.
- Rapid dry out capability while still retaining very low porosity.
- Excellent resistance to abrasion and alkali vapors.

Service Temperature:	2800°F / 1538°C	Wt. Required for Estimating:	168 lbs/ft^3
Liquid Type:	E10 (9.55 lbs./gal)	Storage Life:	6 months
Addition Quantity:	5 – 6%		

TYPICAL CHEMICAL ANALYSIS (% Calcined Basis)

Al_2O_3	SiO_2	ZrO_2	SiC	Fe_2O_3	TiO_2	CaO	Alkalies
56	26	8	6	1	2.5	< 0.5	< 0.5

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 Loss (%)	Permeability (mDarcys)	Surface Area (m^2/g)
250	655	2,992	169	10.8	0.1			0.8821	4.121
750	789	3,732	168	12.7	0.2			0.8255	4.558
1500	1,447	6,266	168	13.8	0.2	< 11		0.8933	3.969
2000	4,374	17,870	170	12.4	-0.2		< 35%	0.8833	1.408
2500	4,458	18,968	168	11.6	-0.1	< 4		1.5552	0.581
2800	3,559	20,599	167	12.7	0.1	< 4		0.4195	0.427

TYPICAL HOT PHYSICAL PROPERTIES

Prefired to °F	Hot Modulus of Rupture (psi)	Thermal Conductivity (BTU/ft^2/hr/in/°F)	Thermal Expansion (%)
250		13.8	0.03
750		14.6	0.12
1500	1,821	15.2	0.34
2000		15.4	0.58
2500	2,129	15.5	0.80
2750	1,370	15.6	0.90

Standard Cure Out Schedule: G

Packaging: 72/55 lb. bags per pallet (3,960 lbs)

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