



RENO REFRACTORIES, INC

ElectroPump™ 1085

TECHNICAL DATA SHEET

ElectroPump™ 1085 is a high alumina, bauxite based, pump castable designed to be installed by vibration cast and pumping.

- Based on Reno's proprietary Electro Chemical bond system featuring an electrolyte for ultimate performance.
- Rapid dry out capability while still having low porosity.
- Micro porosity of bond phase has greatly reduced reactivity to furnace and ladle vapors by reducing the exposed surface area.
- High hot strength, corrosion and abrasion resistance.
- Low porosity for reduced penetration and reaction with molten metals, slags, and vapors.
- Recommended for deltas, tundish covers, large shapes, dynamic molten iron and steel contact.

Service Temperature: 3000°F/1648°C Wt. Required for Estimating: 183 lbs/ft³
Liquid Type: E10 (9.55 lbs./gallon) Storage Life: 6 months
Addition Quantity: 4.5 - 6.0%

TYPICAL CHEMICAL ANALYSIS (% Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	Other
86	11	0.5	<1	1.5

TYPICAL PHYSICAL PROPERTIES

Prefire Temperature (°F)	Modulus of Rupture (psi)	Cold Crushing Strength (psi)	Density (pcf)	Porosity (%)	Linear Change (%)	Permeability (mDarcy)	Thermal K (Btu/in/Ft ² /hr)	SurfaceArea (m ² /g)
250	780	4,463	185	15.1	0.1	2.0061	17.2	4.986
750	895	4,603	184	15.6	0.1	0.6557	20.5	4.372
1500	1,473	6,726	183	16.4	0.1	1.0030	22.6	4.615
2000	4,723	14,026	185	14.5	-0.1	3.0157	23.4	0.849
2500	4,090	21,292	183	14.7	0.3	9.5535	24.0	0.199
2800	4,381	17,621	182	14.3	0.4	5.9279	24.3	0.284
3000	3,815	18,623	182	12.7	0.6	21.4310	24.4	0.193

Thermal Expansion Coefficient: 3.99 E-6 in/in/°F (ASTM C832)

USS Thermal Shock: 2, 3, 2, 3, 3

Thermal Cycle Difference (after 2000°F): 23.6% MOR Loss (ASTM C-1171)

Hot MOR at 1500°F: 2,521 psi (ASTM C583)

Hot MOR at 2500°F: 2,349 psi (ASTM C583)

Hot MOR at 2700°F: 430 psi (ASTM C583)

Abrasion Loss After 1500°F: 2.88 cc (ASTM C704)

Abrasion Loss After 2500°F: 3.27 cc (ASTM C704)

Standard Dryout Schedule: F

PACKAGING: 55 lb. Bags, 72 per Pallet (3960 lbs.) 1500 lb. Bags, 2 per Pallet (3000 lbs.) 2000 lb. Bags, 2 per Pallet (4000 lbs.)

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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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