



RENO REFRACTORIES, INC

Reno ElectroPump™ 1070

TECHNICAL DATA SHEET

Reno ElectroPump™ 1070 is a mullite based, low moisture castable designed for vibration cast, and pumping installations.

- Based on Reno's proprietary Electro Chemical system featuring an electrolyte for maximum performance.
- Rapid dry out capability while still retaining very low porosity.
- Micro porosity of bond phase greatly reduces reactivity to corrosive vapors in the process.
- Low porosity and permeability for reduced penetration and reaction with molten metals, slags and vapors.
- Recommended for molten iron transport vessels such as ladles, spouts, covers, etc. where low to moderate slag is present.

Service Temperature:	3000°F/1648°C	Wt. Required for Estimating:	161 lbs./ft ³
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	SiC+C	Fe ₂ O ₃	TiO ₂	CaO	Alkali
70	27	0	0.7	2	0	0.35

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	650	3,267	161	12.1	0.0	0.6232	10.2	4.690
750	801	3,869	161	14.7	0.0	0.7667	11.7	5.353
1500	1,250	5,524	161	15.6	0.0	0.7618	12.7	4.593
2000	4,334	14,474	161	14.8	-0.2	2.4074	13.1	2.205
2500	4,542	17,106	162	15.3	0.4	3.2550	13.4	0.457
2800	3,498	17,858	160	15.0	1.0	5.3575	13.4	0.144

Thermal Expansion Coefficient: 3.15 E⁻⁶ in/in/F (ASTM C832)
Thermal Cycle Loss (after 2000°F): 7 % MOR Loss (ASTM C-1171)

Hot MOR at 1500°F:	1,674 psi (ASTM C583)
Hot MOR at 2500°F:	1,108 psi (ASTM C583)
Hot MOR at 2700°F:	1,209 psi (ASTM C583)

Abrasion Loss After 1500°F:	12 cc (ASTM C704)
Abrasion Loss After 2500°F:	4 cc (ASTM C704)
Abrasion Loss After 2800°F:	4 cc (ASTM C704)

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.)

E 25-020 K

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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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