RENO REFRACTORIES, INC

ElectroPump™ 1125 SIC

TECHNICAL DATA SHEET

ElectroPump™ 1125 SIC is a high alumina silicon-carbide, no-cement castable designed to be pumpable for installation.

- Based on Reno's propriety Electro Chemical bond system which utilizes a nano-fluid electrolyte for ultimate performance.
- Rapid dry out capability while still retaining very low porosity.
- Excellent material for applications in cement plant cyclones, ducts, coolers, and offtakes.
- Excellent resistance to alkalai vapors, sulfur compounds, and chlorides.
- Excellent refractory for large scale installations.
- Low permeability to reduce vapor penetration into the refractory structure.
- The low porosity, dry surfaces greatly reduce dust buildup in the primary end vessels.

Service Temperature:	3000°F
Storage Life:	6 months
Electrolyte Type:	E11
Addition Quantity:	4.0-4.5% (wt.)
Wt. Required for Estimating:	187 pcf

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Al_2O_3	SiO_2	TiO_2	SiC + C
67	6.5	1.2	25

TYPICAL PHYSICAL PROPERTIES

Prefire Temperature (°F)	Modulus of Rupture (psi)	Cold Crushing Strength (psi)	Density (pcf)	Porosity (%)	Linear Change (%)	Permeability (mdarcys) 1.1 Green
250	570 – 680	3,990 – 4,580	187	11.0	0.11	1.4
750	800 – 920	4,595 – 5,730	188	12.3	-0.22	5.4
1000	1,025 – 1,080	5,835 – 8,180	187	12.9	-0.03	7.2
1500	1,520 – 1,695	8,470 – 9,140	187	11.8	0.17	1.7
2000	2,905 – 3,170	12,660 –14,690	187	11.8	-0.25	20.2
2800*	2,265 – 2,425	12,475 – 13,250	187	11.9	0.33	13.8

Thermal Expansion Coefficient: 2.18E-6 in/in/°F (ASTM C832)
Thermal Shock Loss (after 2000°F): 13.7% MOR Gain (ASTM C-1171)

Abrasion Loss After 1500°F: 4.6 cc
Abrasion Loss After 2500°F: 6.2 cc

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