RENO REFRACTORIES, INC

ElectroPump™ 22 SIC

TECHNICAL DATA SHEET

ElectroPump™ 22 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:	E 11
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	7.5	1.2	22

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	636	2183	187.0	11.8	0.20	1.4
750	653	2209	189.7	12.1	0.04	5.4
1000	735	2430	188.1	12.5	0.15	7.2
1500	1565	9403	186.6	12.7	0.22	1.7
2000	2830	10691	186.9	12.4	-0.11	20.2
2800*	2434	8764	188.5	11.4	0.19	13.8

Thermal Expansion Coefficient:	3.18E-6 in/in/°F (ASTM C832)
Thermal Shock Loss (after 2000°F):	-20.9% MOR Loss (ASTM C-1171)

Abrasion Loss After 1500°F:	4.93 cc
Abrasion Loss After 2500°F:	2.78 cc

19-094A

196030 – 1/30/2021

Reno Refractories, PO Box 201, Morris, Alabama 35116
205.647.0240 | Toll Free 1.800.741.7366

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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