RENO REFRACTORIES, INC

ElectroShot™ 1116 SIC

TECHNICAL DATA SHEET

ElectroShot™ 1116 SIC is a high alumina silicon-carbide, no-cement castable design to be installed by the shotcrete process.

- Based on Reno's propriety Electro Chemical bond system featuring a nano fluid electrolyte for ultimate performance.
- Rapid dry out capability while still retaining very low porosity.
- Excellent material for applications in foundries and steel mills with harsh conditions.
- Excellent resistance to iron, slag, thermal shock and oxidation.
- Recommended for use in blast furnace troughs and skimmer blocks, tilting runners, cupola wells, troughs, and tap-hole blocks.
- Excellent refractory for large blast furnace troughs where slag resistance at high temperatures is paramount.

Service Temperature:	3000°F
Storage Life:	6 months
Electrolyte Type:	E11
Addition Quantity:	4.0-4.5% (wt.)
Wt. Required for Estimating:	183 pcf

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Al_2O_3	SiO_2	TiO_2	SiC + C
76.1	6.5	1.4	16

TYPICAL PHYSICAL PROPERTIES

Prefire Temperature (°F)	Modulus of Rupture (psi)	Cold Crushing Strength (psi)	Density (pcf)	Porosity (%)	Linear Change (%)	Permeability (mDarcys)
250	1,085 – 1,100	2,545 – 4,105	178	13.8	0.11	2.8
750	950 – 965	2,580 – 3,800	180	16.5	-0.11	12.7
1000	800 – 1,050	3,710 – 4,925	182	16.3	0.00	25.0
1500	1,725 – 2,200	10,700 – 10,855	183	15.9	-0.11	24.5
2000	4,100 – 5,000	14,230 –15,700	186	12.5	-0.07	27.7
2500*	3,815 – 3,490	8,645 – 11,365	187	13.2	-0.28	28.3
2800*	2,115 – 2,310	13,000 – 15,945	185	12.7	0.25	28.1

Thermal Expansion Coefficient: 2.83E-6 in/in/ °F (ASTM C832)
Thermal Shock Loss(after 2000ºF): 15.0% MOR Loss (ASTM C-1171)

Abrasion Loss After 1500ºF: 5.7 cc
Abrasion Loss After 2500ºF 3.5 cc

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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Reno Refractories, PO Box 201, Morris, Alabama 35116
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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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