



ElectroCoat™ 75 SiC is a silicon-carbide based, ceramic coating with high density, micro porosity, low permeability and non-wetting characteristics.

- Based on Reno’s propriety Electro-Chemical bond system featuring a nano-fluid electrolyte for ultimate performance.
- Can be applied by spray or brush after mixing with the Electrolyte.
- Forms a non-wetting surface with low porosity.
- Excellent resistance to iron, slag, thermal shock and oxidation.
- Recommended for use in Iron ladles, pressure pour furnaces, desulfurization vessels, skimmer blocks, and troughs.
- Excellent for reducing slag buildup in foundry holding and pressure-pour furnaces, receiver and discharge spouts, and ductile treatment ladles. Excels where corrosion caused by high velocity slag/metal contact occurs.

Service Temperature: 3000°F
 Electrolyte Type: E11
 Addition Quantity: 16.3% by weight
 Wt. Required for Estimating: 147 lb/ft³
 Storage Life: 6 months

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Al ₂ O ₃	SiO ₂	P ₂ O ₅	SiC + C	Alkali
12.74	12.94	0.38	73.04	0.19

TYPICAL PHYSICAL PROPERTIES (Cast Samples)

Pre-fire Temperature (°F)	Pre-fire Temperature (°C)	Average Pore Diameter (micron)	Surface Area (m ² /g)	Bulk Density (g/cm ³)	Absolute Density (g/cm ³)	Permeability (mDarcys)	Threshold Pressure (psi)	Thermal k (Btu/ft ² /in/hr)
250	110	0.087	4.14	2.36	2.99	6.38	5.08	17.5
2000	1093	0.082	4.05	2.31	2.86	18.38	24.99	32.5
2200	1204	0.045	7.39	2.24	2.76	17.58	25.07	34.7
2600	1427	0.081	5.49	2.24	3.00	16.94	37.34	37.0

Modulus of Elasticity(2732°F): 14.2E6 psi (ASTM E1876-15)
 Thermal Expansion Coefficient: 2.78E-6 in/in/°F (ASTM E228-17)
 Abrasion Loss After 1500°F: 1.3 cc (ASTM C704-15)
 Abrasion Loss After 2500°F*: 2.8 cc (ASTM C704-15)

PACKAGING: Sold in Kits (31.4 lbs. each), 24 per pallet (753.6 lbs.)
 EBCO 19-006 Revised BP 5/16/2021

pin#194060

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.