



TECHNICAL DATA SHEET

ElectroCast™ 86 is a high alumina, bauxite based, castable designed to be installed by vibration casting into forms.

- Based on Reno’s proprietary Electro Chemical bond system.
- Rapid dry out capability while still having low porosity.
- Micro porosity of bond phase has greatly reduced reactivity to furnace and ladle vapors.
- High hot strength and abrasion resistance.
- Low porosity for reduced penetration and reaction with molten metals, slags, and vapors.
- Recommended for deltas, tundish covers, large shapes, etc.

Service Temperature: 3000°F  
 Storage Life: 6 months  
 Electrolyte Type: E3  
 Addition Quantity: 4.0-5.0%  
 Wt. Required for Estimating: 182 pcf

TYPICAL CHEMICAL ANALYSIS (% Calcined Basis)

Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	Other
86	11	0.5	<1	1.5

TYPICAL PHYSICAL PROPERTIES

Prefire Temperature (°F)	Modulus of Rupture (psi)	Cold Crushing Strength (psi)	Density (pcf)	Porosity (%)	Linear Change (%)
250	1,820-1,955	5,320-5,740	181	10.2	0.00
750	2,180-2,670	11,340-12,055	184	10.5	-0.11
1500	2,610-2,830	8,575-10,440	182	13.5	-0.11
2000	5,805-6,255	15,030-16,115	182	11.3	-0.41
2500	2,850-3,075	15,390-15,635	179	11.4	0.30

Thermal Shock Loss (after 2000°F): 24% MOR Loss (ASTM C-1171)

Abrasion Loss After 1500°F: 2.5 cc (ASTM C704)

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.