



RENO REFRACTORIES, INC

## Reno ElectroVibe 889 M

### TECHNICAL DATA SHEET

**Reno ElectroVibe 889 M** is a high purity, alumina based spinel bonded refractory with in-situ spinel forming additions. It is designed for lining inductors of vertical channel furnaces melting iron and steel. This product is a dry vibratable with special additives to aid in the densification process. High densities and a very homogeneous microstructure are reliably obtained when the product is compacted using normal vibrators. A mold form for the channels is necessary while following normal installation procedures.

- Provides superior performance in ductile, gray and malleable iron induction furnaces. Also used for melting steel and similar high temperature alloys.
- Electro Bonding improves density and erosion resistance by controlling static charging of particles.
- Improved sintering occurs due to improved colloidal particle packing.
- An engineered microstructure is formed, with small pore sizes.
- Very low dust levels are normally observed.
- Spinel bonding is extremely resistant to Iron Oxide chemical corrosion.

Service Temperature: 3000°F / 1648°C      Wt. Required for Estimating: 175 lbs/ft<sup>3</sup>  
Storage Life: 12 months if stored in dry and temperature controlled air.

### 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>	MgO	Na <sub>2</sub> O	B <sub>2</sub> O <sub>3</sub>	CaO
88.3	0.9	0.14	9.34	0.24	0.30	0.18

### TYPICAL COLD PHYSICAL PROPERTIES

Prefired to °F / °C	Bulk Density (lbs/ft <sup>3</sup> / g/m <sup>3</sup> )	True Density (lbs/ft <sup>3</sup> / g/m <sup>3</sup> )	Cold Crushing Strength (psi / MPa)	Apparent Porosity (%)	Linear Change (%)	Median Pore Diameter (µm)
2732 / 1500	177.8 / 2.85	223.4 / 3.58	1,199 / 8.27	20.2	0.2	21.34
2912 / 1600	175.3 / 2.81	222.4 / 3.56	2,763 / 19.06	21.3	0.0	23.76

Packaging: 40 / 55 lb. bags per pallet

EBCO 23-183 C

PIN#199800 9/27/2023

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.

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