RENO REFRACTORIES, INC

Reno ElectroVibe 943 M

TECHNICAL DATA SHEET

Reno ElectroVibe 943 M is a high purity, fused alumina based refractory with spinel forming additions. It is designed for lining the inductor of vertical channel furnaces melting iron. 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.
- The Electro Bonding improves erosion resistance and density 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^3
Storage Life: 12 Months if stored in dry and temperature controlled air.

TYPICAL CHEMICAL ANALYSIS (% Calcined Basis)

Al_2O_3	SiO_2	Fe_2O_3	MgO	TiO_2	B_2O_3	CaO
93.5	0.50	0.1	3.2	1.79	0.2	0.1

TYPICAL COLD PHYSICAL PROPERTIES

Prefired to °F / °C	Bulk Density lbs/ft^3 / g/cm^3	True Density lbs/ft^3 / g/cm^3	Cold Crushing Strength psi / MPa	Apparent Porosity (%)	Linear Change (%)	Median Pore Diameter (µm)
2550 / 1400	178.5 / 2.86	228.4 / 3.66	8,153 / 56.21	21.88	3.5	11.2
2732 / 1500	177.8 / 2.85	228.5 / 3.66	7,783 / 53.66	22.09	3.8	13.9

Packaging: 40/55# bags per pallet; 2/1,100# bulk bags per pallet; 1/1,100# bulk bags per pallet

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