



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:** 180 lbs/ft³
Storage Life: 12 Months if stored in dry and temperature controlled air.

TYPICAL CHEMICAL ANALYSIS (% Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	MgO	TiO ₂	B ₂ O 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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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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