RENO REFRACTORIES, INC

Reno ElectroVibe 1088 M

TECHNICAL DATA SHEET

Reno ElectroVibe 1088 M is a high purity, magnesite based refractory with Alumina /Spinel additions. It is designed for lining the inductors of vertical channel induction furnaces. This product is a dry vibratable type and easy to install following normal procedures. High densities are reliably obtained when the product is compacted using a traditional vibrator arrangement. Spinel bonding addition increases corrosion resistance against suspended iron oxide nano-particles present in the iron.

- Provides superior performance in ductile, gray and malleable iron induction furnaces. Suitable for high temperature alloys and steel processing.
- Improved sintering occurs due to improved colloidal particle packing.
- Electro Bonding improves erosion resistance and density by controlling static charging of particles. Because of the unique composition, extremely corrosion resistant phases are formed.
- This product is designed for very high temperature use in inductors operating above 3000F.
- Very low dust levels are normally observed.

Service Temperature: 3200°F / 1760°C Wt. Required for Estimating: 164 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	CaO	TiO_2
5.08	5.16	0.28	87.82	0.73	0.32

TYPICAL COLD PHYSICAL PROPERTIES

Prefired to °F / °C	Bulk Density (lbs/ft^3 / g/m^3)	True Density (lbs/ft^3 / g/m^3)	Cold Crushing Strength (psi / MPa)	Apparent Porosity (%)	Linear Change (%)	Median Pore Diameter (µm)
2732 / 1500	162.49 / 2.604	210.72 / 3.377	1,651 / 18.55	22.82	0.02	10.87
2912 / 1600	162.93 / 2.611	209.60 / 3.359	2,145 / 17.96	22.26	0.10	15.03

Packaging: 40 / 55 lb. 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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