

Lanthanum Strontium Cobalt Iron Oxide Cathode Powder (LSCF)

SOFCMAN offers standard grade Lanthanum Strontium Cobalt Iron Oxide Cathode Powder (LSCF). This kind of material can provide a low-temperature performance for solid oxide and ceramic oxygen generation systems. Specifications on our LSCF product are provided in the table below and representative data are provided in the figures on the following.

SOFCMAN has the ability to make material in larger quantities. For more information about our capacities or to request a quotation please contact us. Custom formulations can be delivered typically within three weeks of ordering

Data sheet

| | |
|-------------------------|---|
| Product Type | LSCF |
| Standard Compositions | $\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_{3+\delta}$ |
| Particle Size(d50) | 0.5~3 μm |
| Crystal Structure | Single-Phase Perovskite |
| Electrical Conductivity | >200S/cm@600°C~800°C |
| Purity | $\geq 99.5\%$ |

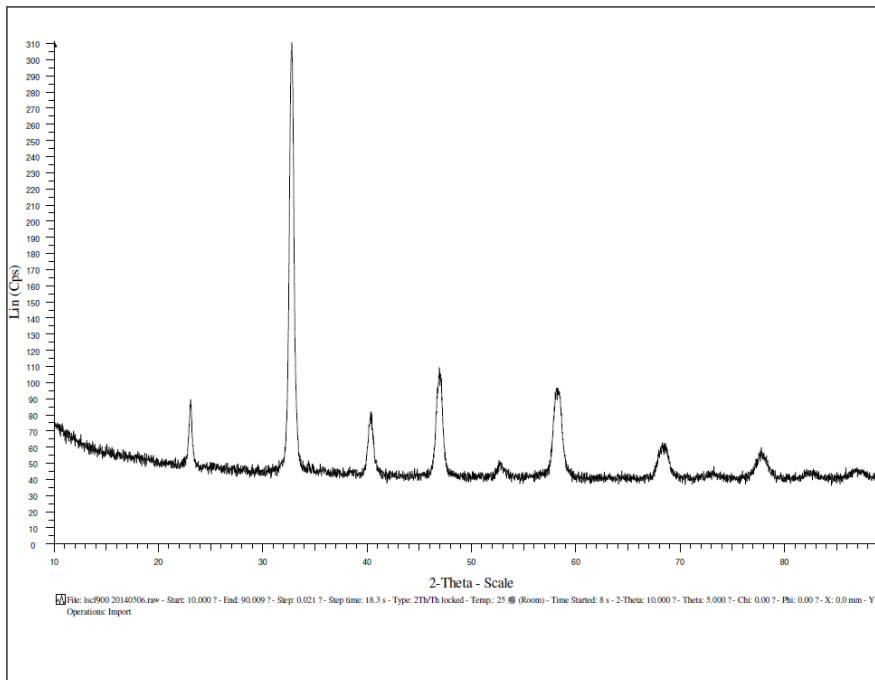


Fig. 1 Typical XRD Pattern

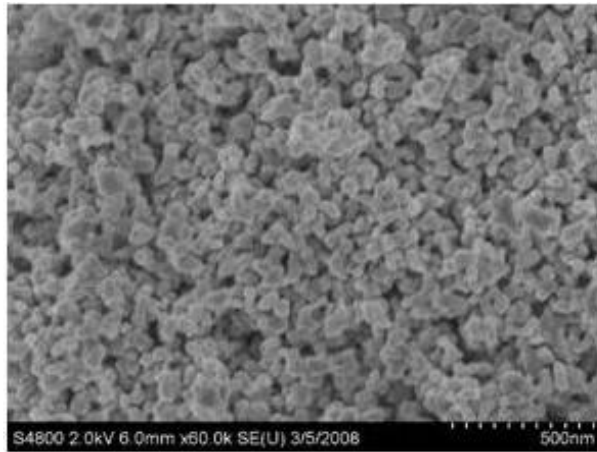


Fig.2 Typical FESEM Picture

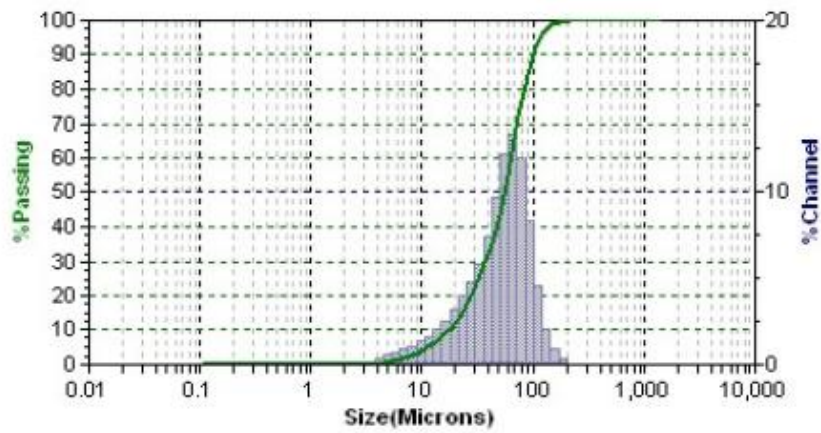


Fig.3 Typical particle size distribution

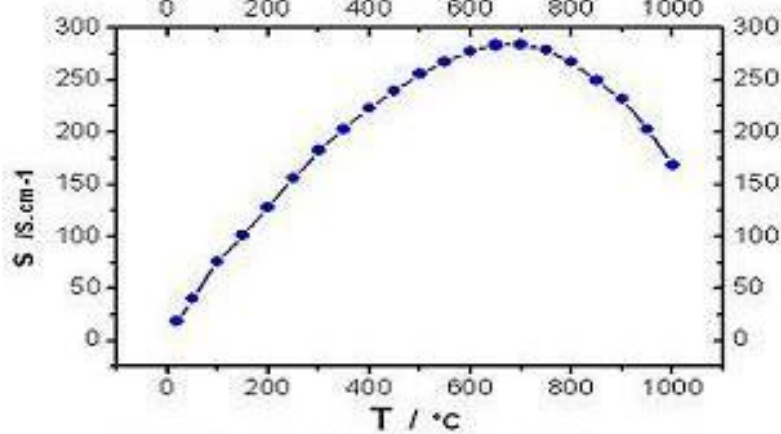


Fig.4 Electrical Conductivity Vs Temperature

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