

Lanthanum Strontium Manganate Cathode Powder (LSM)

SOFCMAN offers fine grade Lanthanum Strontium Manganate Cathode Powder (LSM). LSM is the most widely used cathode material for solid oxide fuel cells and other electrochemical cells used with YSZ based ceramic electrolytes. Specifications on our LSM 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.

Product Specifications

Product Type	LSM
Standard Compositions	$(\text{La}_{0.75}\text{Sr}_{0.25})_{0.95}\text{MnO}_{3\pm\delta}$
Particle Size (d50)	0.5~2 μm
Crystal Structure	Single-Phase Perovskite
Electrical Conductivity	$\geq 150\text{S/m}@600^{\circ}\text{C}\sim 800^{\circ}\text{C}$
Purity	$\geq 99.5\%$

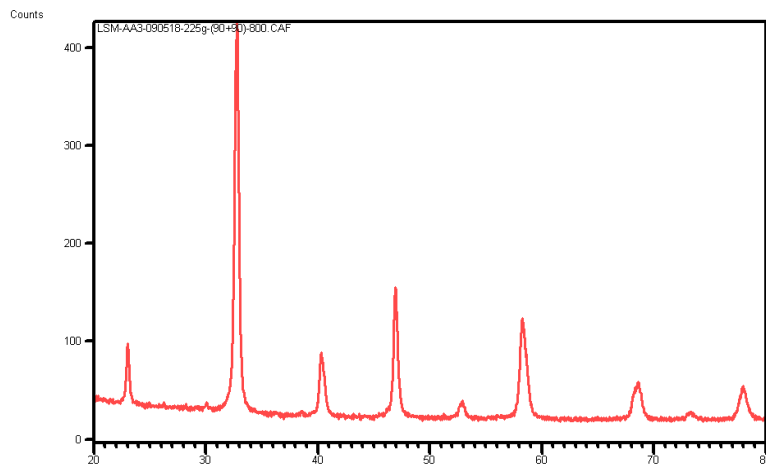


Fig. 1 Typical XRD Pattern

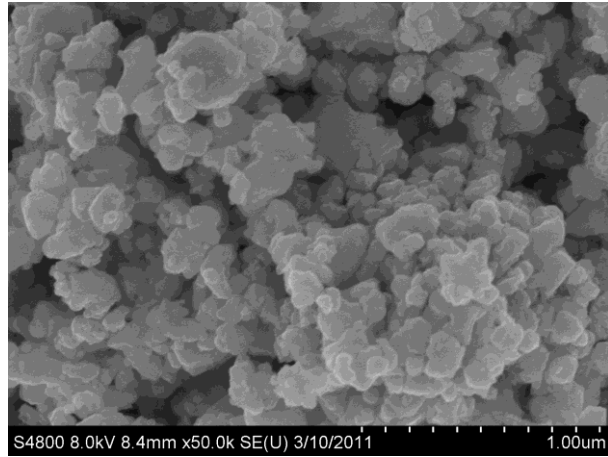


Fig.2 Typical FESEM Picture

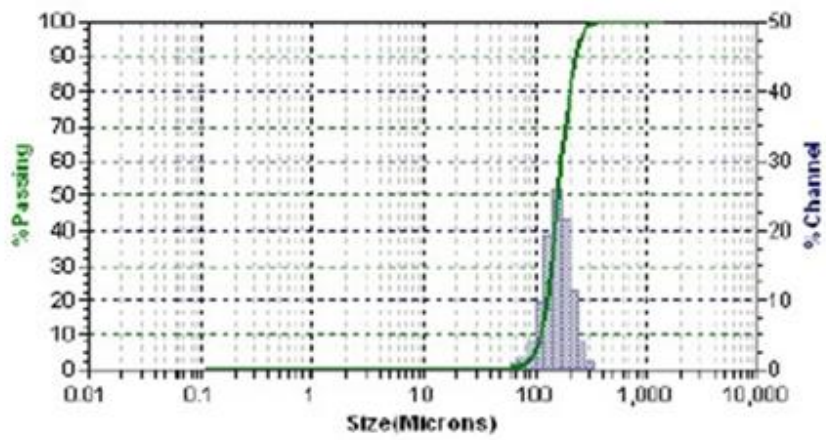


Fig.3 Typical particle size distribution

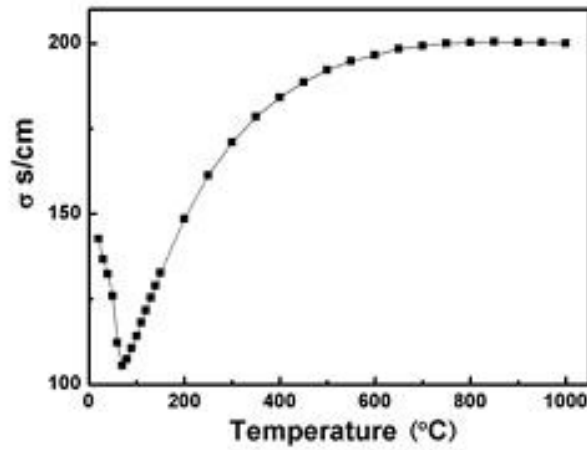


Fig.4 Electrical Conductivity Vs Temperature

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