

Scandia-Stabilized Zircoina (SSZ)

SOFCMAN offers Scandia-Stabilized Zircoina (SSZ) powder. SSZ is used as traditional electrolyte material for solid oxide fuel cells and other electrochemical cells. Specifications on our SSZ product are provided in the table below.

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	SSZ
Standard Compositions*	$(\text{Sc}_2\text{O}_3)_{0.1}(\text{CeO}_2)_{0.01}(\text{ZrO}_2)_{0.89}$
Particle Size(d50)	0.5~3 μm
Electrical Conductivity	> 0.08S/cm @ 800°C
BET	12±2 g/m^2
Purity	≥99.9%

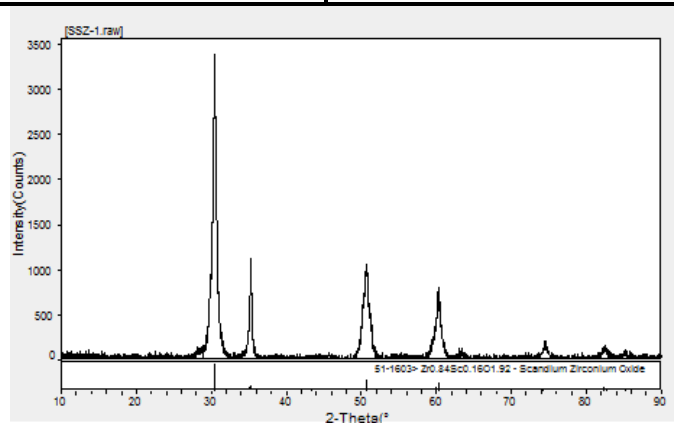


Fig. 1 Typical XRD Pattern

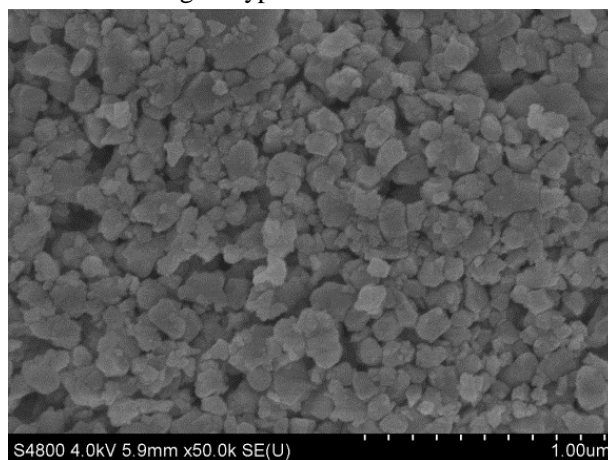


Fig.2 Typical FESEM Picture

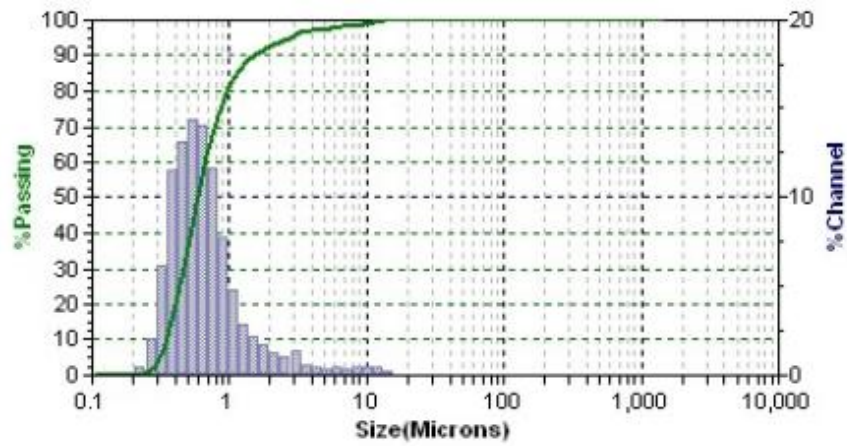


Fig.3 Typical particle size distribution

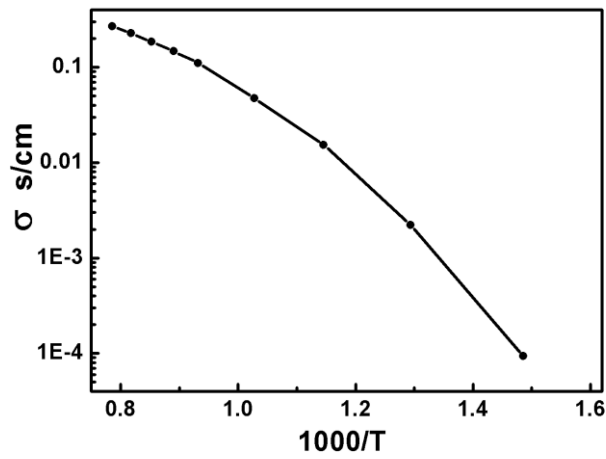


Fig.4 Electrical Conductivity Vs Temperature

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