

Yttria-Stabilized Zirconia (YSZ)

SOFCMAN offers Yttria-Stabilized Zirconia (YSZ) powder. YSZ is used as traditional electrolyte material for solid oxide fuel cells and other electrochemical cells. Specifications on our YSZ 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	YSZ
Standard Compositions	3YSZ: $(Y_2O_3)_{0.03}(ZrO_2)_{0.97}$ 8YSZ: $(Y_2O_3)_{0.08}(ZrO_2)_{0.92}$
Particle Size(d50)	$0.5 \pm 0.2 \mu m$
BET	$12 \pm 2 \text{ g/m}^2$
Purity	$\geq 99.9\%$

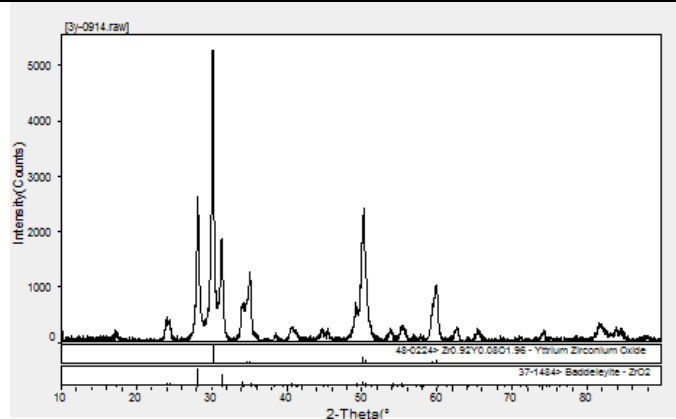


Fig. 1 Typical XRD Pattern of 3YSZ

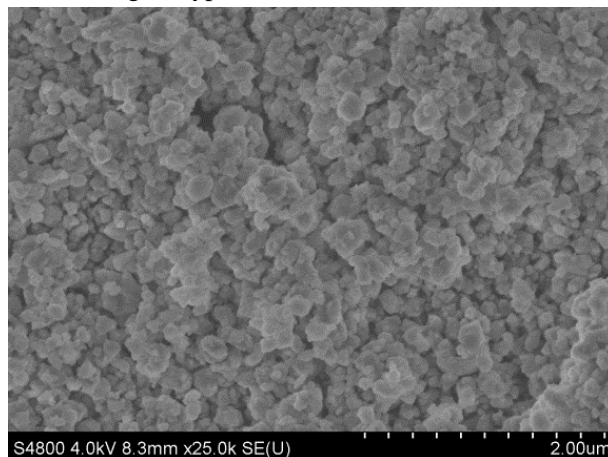


Fig.2 Typical FESEM Picture of 3YSZ

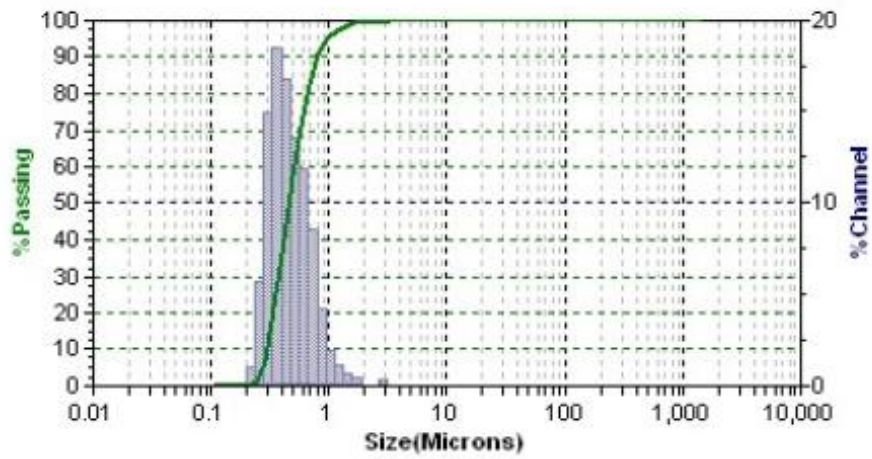


Fig.3 Typical particle size distribution of 3YSZ

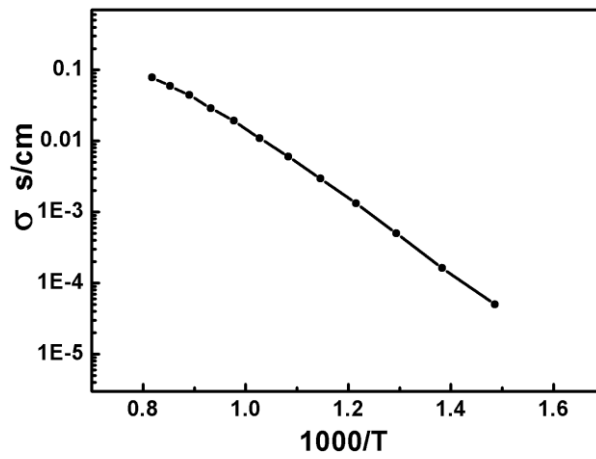


Fig.4 Electrical Conductivity Vs Temperature of 3YSZ

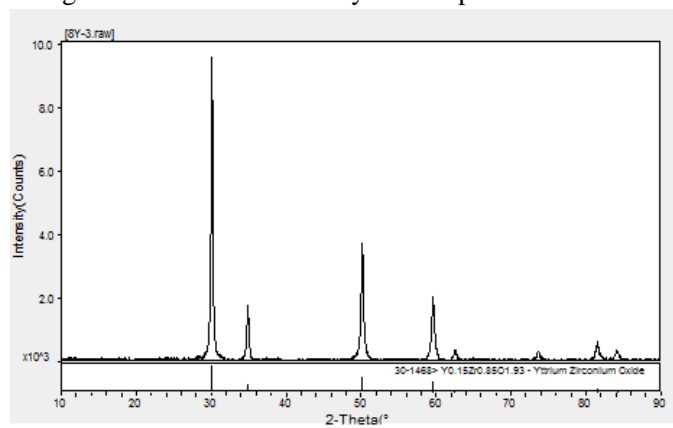


Fig. 5 Typical XRD Pattern of 8YSZ

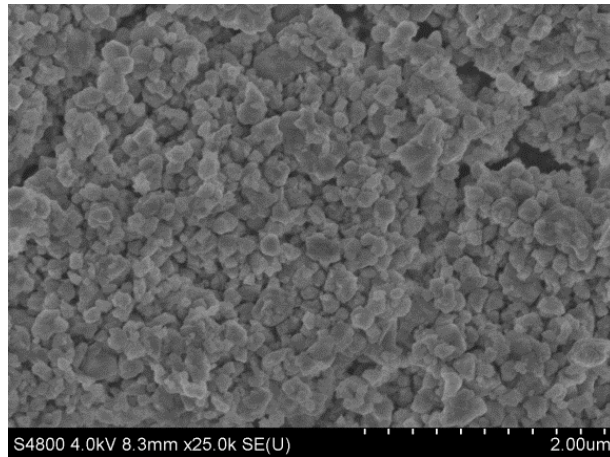


Fig.6 Typical FESEM Picture of 8YSZ

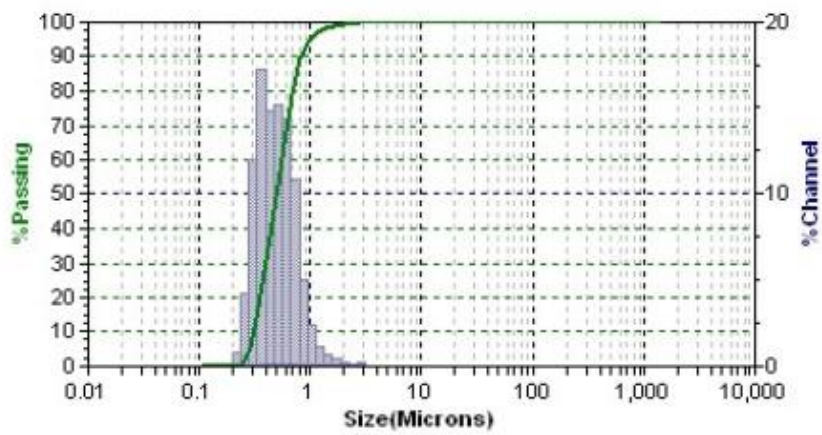


Fig.7 Typical particle size distribution of 8YSZ

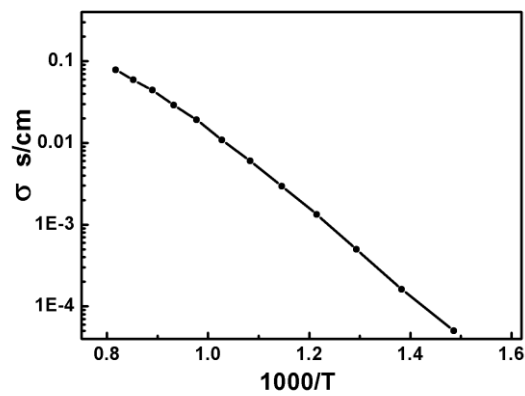


Fig.8 Electrical Conductivity Vs Temperature of 8YSZ

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