

## Lanthanum Strontium Manganite Cermet (LSM-YSZ)

Catlog Number: FCEM-0035

### • Description

A composite electrolyte/electrode material providing a high-surface-area triple phase boundary for enhanced oxygen reduction in SOFCs.

### • Basic Information

Polymer/Material Base: LSM / YSZ Composite

Ion Exchange Capacity (IEC): N/A

Ionic Conductivity (S/cm): 0.02 - 0.06 (at 800°C)

Thickness (µm): 10 - 25 (Layer)

Tensile Strength (MPa): 180 - 240

Elongation at Break (%): < 0.1

Max Operating Temp (°C): 950

Chemical Stability (Fenton's Test): Redox Stable

Density (g/cm<sup>3</sup>): 6.1

Ash Content (%): < 0.02

EW (Equivalent Weight): N/A

Glass Transition Temp (T<sub>g</sub>): N/A

Storage Humidity (%): 0 - 95

Storage Temp (°C): Any

Solubility in Polar Solvents: Insoluble

Ionic Resistance (Ω·cm<sup>2</sup>): 0.2

Dimensional Stability (%): < 1

Thermal Stability (TGA): > 1400°C

Flammability Rating: Non-flammable

Surface Roughness (Ra): < 0.8 µm

 For Research or Industrial Raw Materials, Not For Personal Medical Use!