Eata Battery

Mica-Based Composite Gasket

Catlog Number: FCSM-0082

Description

A structural gasket material reinforced with phlogopite mica, designed for extreme high-temperature sealing in SOFC and electrolysis stacks.

Basic Information

Material Composition: Phlogopite Mica / Resin

Thickness (μm): 500

Density (g/cm³): 2.1

Surface Resistance (mΩ·cm²): Insulator

Tensile Strength (MPa): 25

Thermal Conductivity (W/m·K): 0.35

Porosity (%): < 2

Operating Temp Max (°C): 1000

Flexural Strength (MPa): 45

Corrosion Resistance (μA/cm²): Excellent

Contact Angle (°): N/A

Gas Permeability ($cm^3/cm^2 \cdot s$): < 10^{-8}

Coefficient of Thermal Expansion (10^{-6}/K): 12

Shore Hardness: 80 (Shore D)

Water Uptake (%): < 1

Ash Content (%): 90

Mean Pore Size (μm): N/A

Compressive Strength (MPa): 80

Electrical Conductivity (S/cm): < 10^{-14}

Specific Surface Area (m^2/g): N/A

Young's Modulus (GPa): 25

Chemical Stability: Redox Stable

Coating Material: None

Surface Roughness (Ra): 1.5

Eata Battery delivers the world's battery makers a single, reliable source for every high-performance raw material—cathode to collector, catalyst to membrane—so you can design, scale and ship next-generation batteries faster.

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