Eata Battery

Titanium Liquid Diffusion Layer (LDL)

Catlog Number: FCSM-0037

Description

A sintered titanium fiber felt specifically designed as a liquid diffusion layer for high-voltage water electrolyzers and regenerative fuel cells.

Basic Information

Material Composition: Sintered Titanium Fiber

Thickness (μm): 400

Density (g/cm³): 1.9

Surface Resistance (mΩ·cm²): < 6

Tensile Strength (MPa): 90

Thermal Conductivity (W/m·K): 20

Porosity (%): 60

Operating Temp Max (°C): 450

Flexural Strength (MPa): N/A

Corrosion Resistance (μA/cm²): < 0.3

Contact Angle (°): 15

Gas Permeability (cm³/cm²·s): 100

Coefficient of Thermal Expansion (10^{-6}/K): 8.6

Shore Hardness: N/A

Ash Content (%): < 0.01

Mean Pore Size (μm): 35

Compressive Strength (MPa): 18

Electrical Conductivity (S/cm): 4000

Specific Surface Area (m²/g): N/A

Young's Modulus (GPa): 115

Chemical Stability: Oxidation Resistant

Coating Material: Pt-Ir Optional

Surface Roughness (Ra): 1.8

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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