Eata Battery

Nickel 200 Mesh Flow Distributor

Catlog Number: FCSM-0050

Description

High-purity nickel wire mesh used as a reactant flow distributor in alkaline water electrolyzers and specialized fuel cell electrodes.

Basic Information

Material Composition: Pure Nickel 200

Thickness (μm): 250

Density (g/cm³): 8.89

Surface Resistance (mΩ·cm²): < 5

Tensile Strength (MPa): 450

Thermal Conductivity (W/m·K): 70

Porosity (%): 65

Operating Temp Max (°C): 500

Flexural Strength (MPa): N/A

Corrosion Resistance (μA/cm²): < 2

Contact Angle (°): 72

Gas Permeability (cm³/cm²·s): 450

Coefficient of Thermal Expansion (10^{-6}/K): 13.3

Shore Hardness: 110 (HB)

Mean Pore Size (μm): 200

Compressive Strength (MPa): 180

Electrical Conductivity (S/cm): $1.1x10^5$

Specific Surface Area (m²/g): N/A

Young's Modulus (GPa): 205

Chemical Stability: Alkali Resistant

Coating Material: None

Surface Roughness (Ra): 1.5

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