Eata Battery

FKM-Based Carbon Composite Gasket

Catlog Number: FCSM-0091

Description

Conductive gasket material made from fluoroelastomer filled with carbon fibers, designed for simultaneous gas sealing and electrical grounding.

Basic Information

Material Composition: FKM / Carbon Fiber

Thickness (μm): 1000

Density (g/cm³): 1.65

Surface Resistance (mΩ·cm²): < 45

Tensile Strength (MPa): 14

Thermal Conductivity (W/m·K): 1.8

Porosity (%): < 2

Operating Temp Max (°C): 230

Flexural Strength (MPa): N/A

Corrosion Resistance (μA/cm²): Excellent

Contact Angle (°): 105

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

Coefficient of Thermal Expansion (10^{-6}/K): 120

Shore Hardness: 75 (Shore A)

Water Uptake (%): < 0.4

Ash Content (%): 20 (Carbon)

Mean Pore Size (μm): N/A

Compressive Strength (MPa): 15

Electrical Conductivity (S/cm): 35

Specific Surface Area (m²/g): 10

Young's Modulus (GPa): 0.05

Chemical Stability: Acid Stable

Coating Material: None

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.

Tel: 1-631-637-0420 | 1-631-533-0595
Email: info@eataray.com
Suite 103, 17 Ramsey Road, Shirley, NY 11967, USA