

Boron Nitride Release Coating

Catlog Number: FCSM-0055

• Description

A high-temperature boron nitride structural lubricant and release coating used during the molding of composite bipolar plates to ensure surface quality.

• Basic Information

Material Composition: Boron Nitride / Binder

Thickness (μm): 50

Density (g/cm^3): 1.5

Surface Resistance ($\text{m}\Omega\cdot\text{cm}^2$): Insulator

Tensile Strength (MPa): N/A

Thermal Conductivity ($\text{W}/\text{m}\cdot\text{K}$): 35

Porosity (%): 30

Operating Temp Max ($^{\circ}\text{C}$): 1000

Flexural Strength (MPa): N/A

Corrosion Resistance ($\mu\text{A}/\text{cm}^2$): Excellent

Contact Angle ($^{\circ}$): 120

Gas Permeability ($\text{cm}^3/\text{cm}^2\cdot\text{s}$): N/A

Coefficient of Thermal Expansion ($10^{-6}/\text{K}$): 1.2

Shore Hardness: N/A

Ash Content (%): 95 (Solid)

Mean Pore Size (μm): 0.5

Compressive Strength (MPa): N/A

Electrical Conductivity (S/cm): $< 10^{-12}$

Specific Surface Area (m^2/g): 15

Young's Modulus (GPa): N/A

Chemical Stability: Inert

Coating Material: BN Layer

Surface Roughness (Ra): 1.5

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