

## Expanded Vermiculite Gasket Sheet

Catlog Number: FCSM-0071

### • Description

A non-conductive, high-temperature mineral-based gasket sheet specifically engineered for sealing solid oxide fuel cell stacks and exhaust manifolds.

### • Basic Information

Material Composition: Expanded Vermiculite

Thickness ( $\mu\text{m}$ ): 1000

Density ( $\text{g}/\text{cm}^3$ ): 1.1

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

Tensile Strength (MPa): 5

Thermal Conductivity ( $\text{W}/\text{m}\cdot\text{K}$ ): 0.15

Porosity (%): 12

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

Flexural Strength (MPa): N/A

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

Contact Angle ( $^{\circ}$ ): N/A

Gas Permeability ( $\text{cm}^3/\text{cm}^2\cdot\text{s}$ ):  $< 10^{-6}$

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

Shore Hardness: 60 (Shore A)

Water Uptake (%):  $< 2$

Ash Content (%): 95

Mean Pore Size ( $\mu\text{m}$ ): N/A

Compressive Strength (MPa): 15

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

Specific Surface Area ( $\text{m}^2/\text{g}$ ): 5

Young's Modulus (GPa): 0.2

Chemical Stability: Chemically Inert

Coating Material: None

Surface Roughness (Ra): 3.5

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