

Alumina-Based Sintering Support

Catlog Number: SSM-0031

• Description

Inorganic alumina-filled support designed to maintain shape during high-vacuum sintering of stainless steel and tool steel parts.

• Basic Information

Base Material: Alumina-Polymer Composite

Solubility Method: Thermal/Mechanical

Solvent Type: None

Heat Deflection Temp (0.45MPa): 350+

Glass Transition Temp (Tg): 380

Melting Point (°C): -

Density (g/cm³): 2.85

Water Absorption (%): 0.01

Tensile Strength (MPa): 42

Tensile Modulus (MPa): 8500

Elongation at Break (%): 1

Flexural Strength (MPa): 85

Flexural Modulus (MPa): 7800

Printing Temp (°C): 320-350

Bed Temp (°C): 120-150

Chamber Temp (°C): 100-140

Nozzle Type: Hardened Steel

Layer Height (mm): 0.15

Shrinkage Rate (%): 0.02

Continuous Use Temp (°C): 300

Impact Strength (kJ/m²): 4.5

Flame Retardancy (UL94): V-0

Surface Resistivity (Ω): 10¹⁵

 For Research or Industrial Raw Materials, Not For Personal Medical Use!