

Sinter-Safe Carbon Matrix

Catlog Number: SSM-0037

• Description

Ultra-low ash graphite support designed for supporting titanium or nickel-based superalloys during the high-heat binder jetting/sintering process.

• Basic Information

Base Material: Graphite-Polymer Blend

Solubility Method: Thermal

Solvent Type: Pyrolysis

Heat Deflection Temp (0.45MPa): 300+

Glass Transition Temp (Tg): 320

Melting Point (°C): -

Density (g/cm³): 0.92

Water Absorption (%): 0.01

Tensile Strength (MPa): 35

Tensile Modulus (MPa): 4800

Elongation at Break (%): 0.8

Flexural Strength (MPa): 62

Flexural Modulus (MPa): 4500

Printing Temp (°C): 330-370

Bed Temp (°C): 130-160

Chamber Temp (°C): 110-150

Nozzle Type: Hardened Steel

Layer Height (mm): 0.2

Shrinkage Rate (%): 0.01

Continuous Use Temp (°C): 280

Impact Strength (kJ/m²): 3.8

Flame Retardancy (UL94): V-0

Surface Resistivity (Ω): 10⁵

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