

## Alumina-Based Sacrificial

Catlog Number: SSM-0094

### • Description

Inorganic alumina core for complex metal casting; withstands extreme heat and allows for precise chemical removal.

### • Basic Information

Base Material: Alumina-Binder Matrix

Solubility Method: Chemical/Thermal

Solvent Type: Acid Leaching

Heat Deflection Temp (0.45MPa): 500+

Glass Transition Temp (Tg): -

Melting Point (°C): -

Density (g/cm<sup>3</sup>): 2.5

Water Absorption (%): 0.01

Tensile Strength (MPa): 40

Tensile Modulus (MPa): 9000

Elongation at Break (%): 0.5

Flexural Strength (MPa): 80

Flexural Modulus (MPa): 8500

Printing Temp (°C): 320-350

Bed Temp (°C): 140-160

Chamber Temp (°C): 120-150

Nozzle Type: Hardened Steel

Layer Height (mm): 0.15

Shrinkage Rate (%): 0.02

Continuous Use Temp (°C): 450

Impact Strength (kJ/m<sup>2</sup>): 3.5

Flame Retardancy (UL94): V-0

Surface Resistivity (Ω): 10<sup>15</sup>

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