



SECTION 1 - IDENTIFICATION

COMPANY ADDRESS:

The Virtual Foundry, Inc 1471 US HWY 51 Stoughton, WI 53589 USA

PRODUCT NAME: Silicon Carbide Filamet™

SECTION 2 - TYPICAL MATERIAL PROPERTIES

Unit	Value
g/cc	1.90
%	No information available
MPa	No information available
%	No information available
MPa	No information available
GPa	No information available
kJ/m²	No information available
	g/cc % MPa % MPa GPa

SECTION 5 - FILAMENT SPECIFICATIONS

Nominal Diameter	Diameter Tolerance	Ovality
1.75mm	± 0.05mm	≥ 95%
2.85mm	± 0.05mm	≥ 95%

Net Filament Weight Ceramic Content

1000/500/250 grams 63.0 - 66.0%

SECTION 6 - GUIDELINES FOR PRINTING

Advised Printing Temperature 190-230°C (374 – 446°F)

Advised Build Plate Temperature 40-65°C (104 – 149°F) (Optional)

65°C (149°F) is recommended for glass/G10 build plates

Build Plate Surface TypePowder coated spring steel, glass, G10, blue painter's tape

Build Plate Preparation Powder Coated Spring Steel: No preparation required

Glass/G10: Clean with IPA, print at 65°C (149°F)
PEI/PC/Fiberglass/Acrylic/Other: Blue painter's tape

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Print Cooling Recommended for small details/intricate parts

Advised Printing Speed 60-80mm/sec

Nozzle Size/Type 0.6mm Hardened Steel

SECTION 10 - ADDITIONAL INFORMATION

This filament is abrasive and will wear standard brass nozzles fast. The Virtual Foundry, Inc recommends a hardened steel nozzle. Gem tipped, stainless steel, titanium and tungsten nozzles have been tested and found to wear quickly.

Sintering Temperature: 1860°C (3380°F) Untested

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