



SECTION 1 - IDENTIFICATION

COMPANY ADDRESS:

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

PRODUCT NAME: H13 Tool Steel Filamet™

SECTION 2 - TYPICAL MATERIAL PROPERTIES

Physical Properties	Unit	Value
Density	g/cc	3.56
Humidity Absorption	%	No information available
Tensile Strength	MPa	No information available
Tensile Elongation	%	No information available
Flexural Strength	MPa	No information available
Flexural Modulus	GPa	No information available
Izod Impact Strength	kJ/m²	No information available

SECTION 5 - FILAMENT SPECIFICATIONS

Nominal Diameter	Diameter Iolerance	Ovality
1.75mm	± 0.05mm	≥ 95%

Net Filament Weight Metal Content
1000/500 grams 86.8%

SECTION 6 - GUIDELINES FOR PRINTING

Advised Printing Temperatu	re	190-230°C (3/4 – 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

Print Cooling Recommended for small details/intricate parts

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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: 1260°C (2300°F) Instructions: https://thevirtualfoundry.com/debind-sinter/

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