

SECTION 1 - IDENTIFICATION

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

PRODUCT NAME: High Carbon Iron 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/m ²	No information available

SECTION 5 - FILAMENT SPECIFICATIONS

Nominal Diameter	Diameter Tolerance	Ovality
1.75mm	± 0.05mm	≥ 95%
2.85mm	± 0.05mm	≥ 95%
Net Filament Weight	Metal Content	
1000/500 grams	75.0 - 80.0%	

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 Type	Powder 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

