

## SECTION 1 - IDENTIFICATION

**COMPANY ADDRESS:**

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

**PRODUCT NAME:** Titanium 64-23 Filamet™

## SECTION 2 - TYPICAL MATERIAL PROPERTIES

Physical Properties	Unit	Value
Density	g/cc	2.50g/cc – 2.85g/cc
Metal Content	%	78.0 – 82.0

## SECTION 3 - FILAMENT SPECIFICATIONS

Nominal Diameter	Diameter Tolerance	Ovality	Net Filament Weight
1.75mm	± 0.05mm	≥ 95%	500 / 250 grams
2.85mm	± 0.05mm	≥ 95%	500 / 250 grams
Pellets	-	-	1000 grams

## SECTION 4 - GUIDELINES FOR PRINTING

<b>Advised Printing Temperature</b>	190 – 230°C (374 – 446°F) For high speed printers: 235 – 250°C (455 – 482°F)
<b>Advised Build Plate Temperature</b>	40 – 65°C (104 – 149°F) (Optional) 65°C (149°F) is recommended for glass/G10 build plates
<b>Build Plate Surface Type</b>	Powder coated spring steel, glass, G10, blue painter's tape
<b>Build Plate Preparation</b>	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
<b>Print Cooling</b>	Recommended for small details/intricate parts
<b>Advised Printing Speed</b>	60 – 80mm/sec For high speed printers: 120 – 150mm/sec
<b>Advised Flow Rate</b>	110 – 125%
<b>Nozzle Size/Type</b>	0.6mm Hardened Steel

## SECTION 5 - 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:** 1350°C (2462°F)      Untested

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**REVISED DATE:** December 2025