



Zetamix Stainless steel datasheet

PRODUCT DESCRIPTION

Zetamix Stainless Steel is a 316L stainless steel filament used for 3D printing. The binders mixed with stainless steel powder enables to have a flexible and resistant filament usable with classical FFF printers (Fused Filament Fabrication). Printed parts need to be debinded and sintered.

Diameter available: 1,75mm
Postprocess : debinding and sintering

IDENTIFICATION

Trade name	Zetamix Stainless steel
Chemical name of raw material	316 L stainless steel
Binding proportion (vol) %	40%
Binding proportion (mass) %	8%
316L proportion (vol) %	60%
316L proportion (mass) %	92%

PRINTING AND SINTERING RECOMMANDATIONS

Printing temperature	120-130°C
Solvent debinding	Acetone at 40°C
Sintering temperature	1350°C, under hydrogenated argon
Shrinkage	x,y = 15.4% ±1% / z = 14.7% ±1%
Density	>90 %

TYPICAL PROPERTIES OF THE FILAMENT

Specific Gravity [g.cm ⁻³]	5.2
MFR [g/10min] (@120°C, 2.5kg, half die)	24
MVR [cm ³ /10(min)]	5
Moisture Absorption , 7 days [%]	<0,3%

Disclaimer : The results presented above are for information and do not constitute a legally binding Material Safety Data sheet (MSDS). Moreover, values are significantly dependent on printing and debinding parameters, operators experience and surrounding conditions. Any descriptions, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product.