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 : chemical debinding and sintering

IDENTIFICATION

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

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ζetamix by NANOE

PRINTING AND SINTERING RECOMMANDATIONS

Printing temperature	110-150°C
Solvant debinding	Acetone at 40°C
Sintering temprature	1350°C, under hydrogenated argon
Shrinkage	x,y = 14.5% ±1% / z = 14.5% ±1%
Density	>90 %

TYPICAL PROPERTIES OF THE FILAMENT

Specific Gravity [$g.cm^{-3}$]	4.80
Melt Flow Index [g/10(min)] (@120°C, 2.5kg, half-die)	30
Melt Volume Rate [cm^3/10(min)]	6.3

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