



Zetamix 17-4PH stainless steel datasheet

PRODUCT DESCRIPTION

Zetamix 17-4PH is a 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 17-4PH stainless steel
Chemical name of raw material	17-4PH
Binding proportion (vol) %	40%
Binding proportion (mass) %	8%
17-4PH proportion (vol) %	60%
17-4PH 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.