



Zetamix H13 steel datasheet

PRODUCT DESCRIPTION

Zetamix H13 Steel is a filament used for 3D printing. The binders mixed with H13 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 H13 steel
Chemical name of raw material	X40CrMoV5-1
Binding proportion (vol) %	35%
Binding proportion (mass) %	10%
H13 proportion (vol) %	65%
H13 proportion (mass) %	90%

PRINTING AND SINTERING RECOMMANDATIONS

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

TYPICAL PROPERTIES OF THE FILAMENT

Specific Gravity [g.cm ⁻³]	4.70
Melt Flow Index [g/10(min)] (@120°C, 2.5kg, half-die)	12
Melt Volume Rate [cm ³ /10(min)]	2.6

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 parametters , 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.