



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
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]	4.70
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.