

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: 1.75 mm and 2.85 mm Post-process: thermal debinding and sintering

IDENTIFICATION

Trade name	Zetamix H13 steel
Other designation	X40CrMoV5-1
Binder system proportion vol%	35
Binder system proportion wt%	10
H13 steel proportion _{vol} %	65
H13 steel proportion wt%	90



PRINTING AND SINTERING RECOMMANDATION

Printing temperature	180°C – 190°C
No chemical debinding	-
Sintering temprature	1350°C under Ar/H ₂ (97.5/2.5) gas
Shrinkage	≈ 17%. The values depend on the batch number you can read on the spool. Please refer to the guidelines to find the correct values for the batch you have.
Density	90-91%

TYPICAL PROPERTIES OF FILAMENTS

Specific Gravity [g.cm ⁻³]	4.5
Melt Flow Rate [g/10(min)] (180°C - 875g – half die)	3,5
Melt Volume Rate [cm³/10(min)] (180°C - 875g – half die)	0,8
Moisture Absorption 24 hours [%]	<0,1%
Moisture Absorption 7 days [%]	<0,3%
Shore D hardness	50

Disclaimer: The results presented above are for information and do not constitute a legally binding Material Safety Data sheet (MSDS). Moreover, values are significally dependent on printing setting, 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.

