

3Dprint AM Tool 40

WAAM solid wire, stainless steel

Material Type

Fe3

40-T

Characteristics

This alloy gives excellent hot wear resistance and toughness, used required by working tools and parts subject to impact, compression and abrasion at elevated temperatures, such as forging dies, die cast moulds, plastic moulds, guides, recipients, continuous casting rolls.

The printed structures are machinable with cutting tools.

Surface hardness typical values: untreated ~40 HRC; soft-annealed 800° C ~230 HB; hardened 1030° C/oil ~48 HRC; tempered 550° C ~42 HRC

Typical analysis of the solid wire (wt.-%)

	C	Si	Mn	Cr	Mo	Fe
wt.-%	0.01	0.40	0.60	6.50	3.30	balance

Available products

Diameter: 1,0 mm – 1,2 mm

Package: BS300 15 kg – ECOdrum 100 – ECOdrum 250 – S760 300

Other diameters and packages on request.

Printing recommendations

Stress relieving/annealing of the finished structure is recommended at 550 °C.

Classification as welding consumable:

EN ISO 14700

S Z Fe3