

3Dprint AM Tool 45

WAAM solid wire, stainless steel

Material Type

Fe3

45-T

Characteristics

This alloy gives excellent hot wear resistance and toughness, required by hot working tools with high mechanical, thermal and abrasive load at the same time, such as forging dies, AI-die cast moulds, plastic moulds.

Machining is possible with tungsten carbide tools.

Surface hardness typical values: untreated ~45 HRC; soft-annealed 780° C ~230 HB; hardened 1030° C/oil ~48 HRC; tempered 600° C ~45 HRC

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

	C	Si	Mn	Cr	Mo	Ti	Fe
wt.-%	0.25	0.50	0.70	5.00	4.00	0.60	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