3Dprint AM Tool 55

WAAM solid wire, stainless steel

Material Type		
Fe8		55-ST

Characteristics

This alloy gives highly wear resistant structures subject to heavy abrasion and compression combined with moderate impact at elevated temperatures, like forging tools, roll mandrills, hot trimming knives, mangle and axial rolls.

Machining is possible by grinding or with tungsten carbide tools.

Surface hardness typical values: untreated ~55 HRC; soft-annealed 820° C ~200 HB; hardened 1050° C/oil ~58 HRC; tempered 600° C ~53 HRC

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

	C	Si	Mn	Cr	Mo	Ti	Fe
wt.-%	0.35	0.30	1.20	7.00	2.00	0.30	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 Fe8