

WAAM solid wire, low-alloyed, high strength structural steel

Material Type	
S700	8MnNiMoCrSi7-6-5

Characteristics
 WAAM solid wire designed for 3Dprinting of fine grained steel structures with high yield strength. Good low temperature toughness.

Typical analysis of the solid wire (wt.-%)						
	C	Si	Mn	Cr	Ni	Mo
wt.-%	0.08	0.60	1.70	0.20	1.50	0.50

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.

Typical mechanical properties acc. to EN ISO 15792-1				
Heat treatment	Yield strength R _{p0.2}	Tensile strength R _m	Elongation (L ₀ =5d ₀)	Impact energy ISO-V KV J
	MPa	MPa	%	-40 °C
u	720	780	16	65
u untreated, shielding gas Ar + 18 % CO ₂				

Classification as welding consumable:

EN ISO 16834-A	AWS A5.28
G 69 6 M21 Mn4Ni1,5CrMo	ER100S-G