

WAAM solid wire, high-alloyed, ferritic stainless steel

Material Type				
AISI 430				
Characteristics				
WAAM solid wire of AISI 430 type designed for 3Dprinting of ferritic steel structures.				
Typical analysis of the solid wire (wt.-%)				
	C	Si	Mn	Cr
wt.-%	0.07	0.8	0.7	17.5
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 of all-weld-metal EN ISO 15792-1				
Heat treatment	Yield strength $R_{p0.2}$	Tensile strength R_m	Elongation ($L_0=5d_0$)	
	MPa	MPa	%	
a	340	540	20	
a annealed, 800°C/1h – shielding gas Ar + 20 % He + 2 % CO ₂				
Classification as welding consumable:				
EN ISO 14343-A		AWS A5.9		
G 17		ER430(mod.)		