

3Dprint AM 2205

WAAM solid wire, duplex stainless steel

Material Type			
S31803	S322205	1.4462	X2CrNiMoN22-5-3

Characteristics

WAAM solid wire of 22 5 3 N L / ER2205 type designed for 3Dprinting of thinner structures with restricted cooling conditions.

Provides a ferritic-austenitic weld metal. The resulting microstructure is austenite with 45-55% ferrite. The printed structures have very good resistance to pitting and stress corrosion cracking in chloride containing environments after post print solution annealing.

Typical analysis of the solid wire (wt%)								
	С	Si	Mn	Cr	Ni	Мо	N	
wt%	0.025	0.5	1.3	22.0	5.0	3.0	0.14	

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	%	+20 °C	−40 °C		
u	660	830	28	73	≥ 32		
u untreated, shielding gas Ar + 20 % He + 2 % CO ₂							