

WAAM solid wire, low-alloyed, creep resistant steel

Material Type									
P22			10CrMo9-1	10CrMo9-10			1.7339		
Characteristics									
WAAM solid wire of 2.5 % Cr 1 % Mo type designed for 3Dprinting processes of 10CrMo9-10 (ASTM A335 Gr. P22) structures. The printed deposit is noted for its good mechanical properties and cracking resistance and for its creep rupture strength after tempering at 700 – 750 °C for at least 1 h.									
Typical analysis of the solid wire (wt%)									
	С		Si	Mn		Cr		Мо	
wt%	0.08		0.5	1.0		2.5		1.0	
Available products									
Diameter:1,0 mm - 1,2 mmPackage:BS300 15 kg - ECOdrum 100 - ECOdrum 250 - S760 300Other diameters and packages on request.									
Typical mechanical properties acc.to EN ISO 15792-1									
Heat treatment		Yield stren	ngth Tensile strength		Elongation		Impact energy		

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
а	450	600	25	150

a annealed, 720 °C/1h / furnace, cooling to 300 °C – shielding gas Ar + 18 % CO₂

Classification as welding consumable:

AWS A5.28	EN ISO 21952-A
ER90S-G [ER90S-B3(mod.)]	G CrMo2Si