3Dprint AM 410 NiMo

WAAM solid wire, high-alloyed, ferritic martensitic stainless steel

Material Type	
AISI 410 NiMo	X 3 CrNi 13 4

Characteristics

WAAM solid wire of 13% Cr 4% Ni type designed for 3Dprinting processes.
Optimised for good ductility and crack resistance.

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

	C	Si	Mn	Cr	Ni	Mo
wt.-%	0.01	0.4	0.5	12.2	4.8	0.5

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 acc. to EN ISO 15792-1

Heat treatment	Yield strength $R_{p0,2}$	Tensile strength R_m	Elongation A (L_0=5d_0)	Impact energy ISO-V KV J	
	MPa	MPa	%	+20°C	-20°C
u	950	1210	12	36	
a	760 (≥ 500)	890 (≥ 750)	17 (≥ 15)	80	≥ 47

u untreated, shielding gas Ar + 8 – 10% CO_2
a annealed, 580°C/8 h / furnace down to 300°C / air – shielding gas Ar + 8 – 10% CO_2

Classification as welding consumable:

EN ISO 14343-A	**AWS A5.9**
(G 13 4)	ER410NiMo