

## 3Dprint AM 50

WAAM solid wire, low-alloyed, structural steel

**Material Type** 

S500 10NiMnSi5-5

## **Characteristics**

WAAM solid wire designed for 3Dprinting of cryogenic fine grained steel structures. The printed deposit is characterised by good low temperature properties.

## Typical analysis of the solid wire (wt.-%) C Si Mn Ni wt.-% 0.1 0.65 1.4 1,35

## **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 <sub>p0.2</sub>	Tensile strength R <sub>m</sub>	Elongation (L <sub>0</sub> =5d <sub>0</sub> )	Impact energy ISO-V KV J	
	MPa	MPa	%	-50 °C	
u	480	590	26	50	
u untreated, shielding gas Ar + 18 % CO <sub>2</sub>					

Classification as welding consumable:

EN ISO 14341-A	AWS A5.28
G 50 5 M21 3Ni1	ER80S-G