

# 3Dprint AM 80 HD

WAAM solid wire, low-alloyed, high strength structural steel

**Material Type** 

S800 10NiMnMoCr8-7-6

#### **Characteristics**

WAAM solid wire designed for 3Dprinting of high strength structures combined with high ductility and toughness.

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

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		С	Si	Mn	Cr	Ni	Мо	
wt.	-%	0.09	0.40	1.70	0.35	2.00	0.60	

## **Typical mechanical properties**

Heat treatment	Yield strength R <sub>p0.2</sub>	Tensile strength R <sub>m</sub>	Elongation (L <sub>0</sub> =5d <sub>0</sub> )	Hardness	Impact energy ISO-V KV J	
	MPa	MPa	%	HV 10	RT	-60 °C
u	825	960	20	330	150	80
S	820	920	20	305		40

u untreated, shielding gas Ar + 30 % He + 2,5 % CO<sub>2</sub>

## **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.

s stress relieved, shielding gas Ar + 30 % He + 2,5 % CO<sub>2</sub>, 600 °C - 2 h