

3Dprint AM Ti-5

WAAM solid wire, titanium

Material Type			
Titan Grade 5	TiAl6V4	UNS R56400	3.7175

Characteristics
 WAAM titanium solid wire designed for 3Dprinting of grade 5 structures. Post weld heat treatment possible to reach higher strength or toughness.

Typical analysis of the solid wire (wt.-%)								
	C	Fe	O	H	Al	V	Ti	N
wt.-%	<0.05	<0.15	0.18	<0.01	6.0	4.0	Bal.	<0.03

Available products
 Diameter: 1,0 mm – 1,2 mm
 Package: S300
 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)
	MPa	MPa	%
u	840	900	10
u untreated, shielding gas 100 % Ar, DC+			

Classification as welding consumable:

EN ISO 24034	AWS A5.16
S Ti 6402 (TiAl6V4B)	ERTi-5