

Material Type		
AISI 316L	1.4404	X2CrNiMo17-12-2

**Characteristics**

Solid wire designed for 3Dprinting of 316L type austenitic stainless steel structures. Austenitic structure with approx. 10 % ferrite. In comparison to 304L steels improved corrosion resistance due to its Mo addition. Resistant against low chloride or salt bearing media. Resistant against inter crystalline corrosion. Good fracture toughness down to -196 °C. The surface can be polished. For service temperatures up to 400 °C

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

	C	Si	Mn	Cr	Ni	Mo	N
wt.-%	0.015	0.45	1.6	18.5	12.0	2.6	0.04

**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 <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	%	-196 °C
u	<b>430</b> (≥ 320)	<b>580</b> (≥ 510)	<b>38</b> (≥ 25)	≥ 32

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

Classification as welding consumable:

<b>EN ISO 14343-A</b>	<b>AWS A5.9</b>
G 19 12 3 L	ER316L