

**Material data sheet:** **316L**

**Manufacturing process:** **Metal Binder Jetting**

**Physical properties:**

**As sintered**  
Density: 7,81 g/cm<sup>3</sup>  
Relative density: 98,9 %

**Mechanical properties:**

**As sintered**  
Yield strength (Rp 0,2%): 188 MPa  
Tensile strength (UTS): 556 MPa  
Elongation at break: 74,5 %

**Geometrical data:**

Layer thickness: 40 µm  
Typical part accuracy (approx): ± 0,2 mm ≤ 20 mm  
± 3 % ≥ 20 mm

**Hardness**

**As sintered**  
Vickers Hardness: 117 HV  
Conversion (approx.): 65 HRB

**Chemical composition\***

**[weight%]:**

Cr	16,0 ÷ 18,0
Mn	Max 2,0
C	Max 0,03
Si	Max 1,0
Ni	10,0 ÷ 14,0
S	Max 0,03
P	Max 0,04
Mo	2,0 ÷ 3,0
Fe	balance

\*Chemical composition of the powder

The reported values have to be considered only just for reference.