



316L stainless steel is a good metal material for functional parts and spare parts. The parts printed are easy to maintain as it attracts little dirt and the presence of chrome gives it the added benefit of never rusting.



316L







Advantage

- > High hardness and toughness
- > High corrosion resistance
- > Good machine-ability
- > Can be highly polished

Ideal Applications

- > Plastic injection and pressure die-casting moulds
- > Medical implants
- > Surgical tools
- > Cutlery and kitchenware
- > Maritime components
- > Spindles and screws
- > General engineering

Powder composition / percent by mass

C	Mn	S	Ni	Cu	Si	P	Cr	Mo	Fe
<0.03	<2.00	< 0.01	12.5-13.0	< 0.50	<0.75	<0.025	17.5-18.0	2.25-2.50	Balance

| Technical Datasheet

General Properties	Density ISO3369	≥7.90 g/cm3		
	Tensile Strength ISO6892-1	≥650 MPa		
	Yield Strength ISO6892-1	≥650 MPa		
Mechanical Properties (As built)	Elongation after Fracture ISO6892-1	≥35 %		
(713 built)	Vickers hardness ISO6507-1	≥205 HV5/15		
	Hardness (HRC) ISO6507-1	22		
	Thermal conductivity at 20 °C	10.4W/mK-19.8 W/mK		
	Surface roughness Ra Z	6 μm-8 μm		
	Tensile Strength ISO6892-1	≥600 MPa		
Mechanical Properties	Yield Strength ISO6892-1	≥400 MPa		
(Heat treated)	Elongation after Fracture ISO6892-1	≥40 %		
	Vickers hardness ISO6507-1	≥180 HV5/15		

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