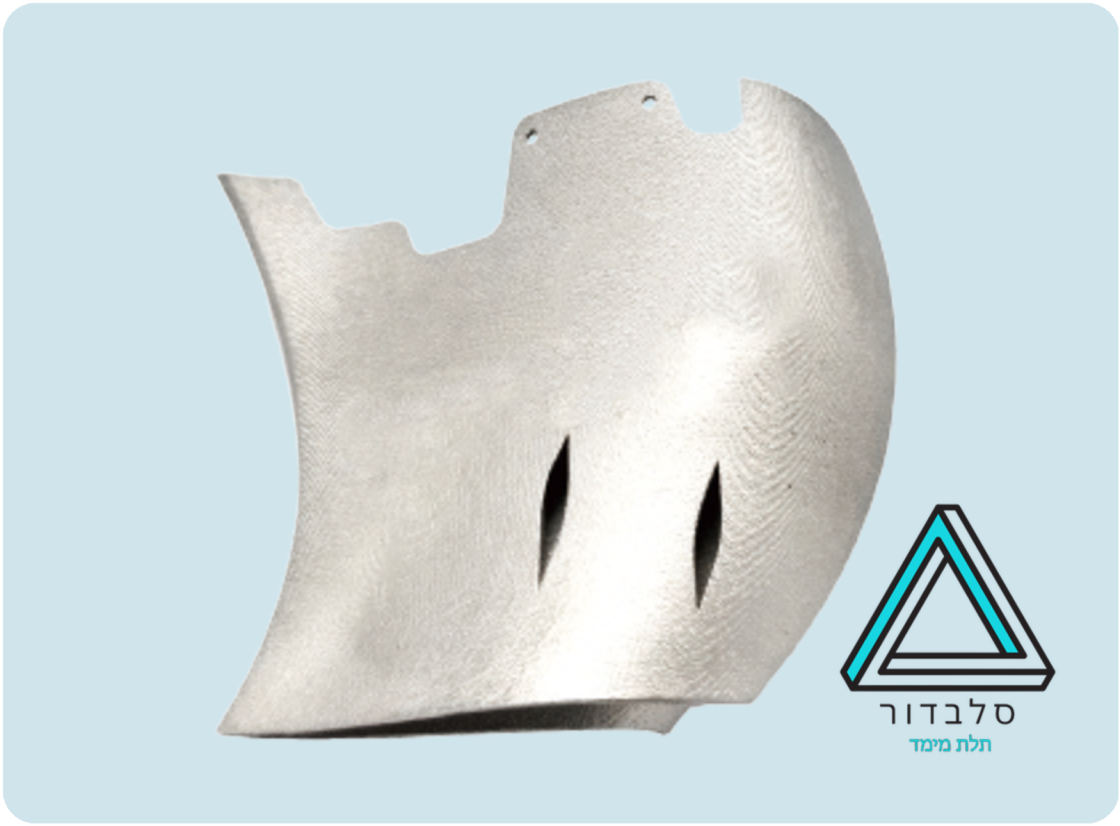
TECHNICAL DATA

Stainless Steel 316L

JS ADDITIVE



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.

JS ADDITIVE

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