

OCEANZ RVS 316L

Datasheet for Stainless Steel parts produced by Selective Laser Melting



With Selective Laser Melting it is possible to 3D print complex metal parts out of a SS 316L powder. The raw material meets the chemical requirements of AISI 316L, DIN 17006 X2CrNiMo17-12-2, W. Nr 1.4404.

SS 316L has a high corrosion and acid resistance and weldability. It can be used over a wide temperature range down to cryogenic temperatures. Possible applications are food processing, oil and gas equipment, moulding components and other high tech engineering applications which require high strength and corrosion resistance.

Parts produced in Stainless Steel 316L can be machined, shot-peened, welded and polished.

Part properties	Value	Unit
Part density	7.9	g/cm ³
Minimum wall thickness	1.0	mm
Layer thickness	0.05 – 0.10	mm
Max. product size	420 x 420 x 400	mm
Achievable part accuracy*	± 0.3 mm / ± 0.3 % of nom.	-

Mechanical properties	Value	Unit
Tensile strength	540	MPa
Elongation at break	40	%
Hardness	20	HRC
Roughness (Ra/Rz)	12 -20	µm

Please note that all mentioned mechanical properties are optimum values according to manufacturer. Due to the layer by layer production process and the specific design of each individual product values may differ.

**If specific properties and/or dimensions are critical, always contact us so we can inform you how to obtain required specifications!*

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