



Stainless Steel 316L

One of the world's most loved metals, Stainless Steel 316L is typically used for mechanical components with high demands for corrosion resistance. This material is suitable for operation up to 842 °F (450 °C) and can be easily welded.

Part Properties

Measurement	Unit	Value	Test Method
Tensile strength	MPa	485	ASTM B348
Yield strength	MPa	170	ASTM B348
Elongation	%	40.0	ASTM B348

Composition

	MIN	MAX
Cr	16.00%	18.00%
Ni	10.00%	14.00%
Mo	2.00%	3.00%
Mn		2.00%
Si		1.00%
P		0.04%
S		0.030%
C		0.030%
Fe	Balance	Balance

Values determined by by third party test facility according to DIN EN ISO 6892-1:2020-06 - Process B / Specimen shape according to DIN 50125 - B6x30 / Relative density usually between 97% - 99% / Part properties impacted by different factors (part design & geometry, etc.) - Version 10/2022

Workflow

Validated workflows need to be followed to achieve properties as provided in the TDS. Examples of validated workflow steps are listed below. Users should defer to the most current workflow information for best results which can be found at support.nexa3d.com.

Additional methods can be found by contacting us at www.nexa3d.com.



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