



Titanium (Ti6AL4v)

Known for its high strength and light weight, titanium also offers good corrosion resistance and biocompatibility, making it a great solution for aerospace and medical applications. Titanium alloy Ti6Al4V (Grade 5) is the most commonly used Titanium alloy globally.

Part Properties

Measurement	Unit	Value	Test Method
Tensile strength	MPa	890	ASTM B348
Yield strength	MPa	790	ASTM B348
Elongation	%	8	ASTM B348

Composition

	MIN	MAX
Al	5.50%	6.75%
V	3.50%	4.50%
Fe		0.30%
O		0.30%
N		0.05%
C		0.08%
H		0.015%
Ti	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 96% - 98% / 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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