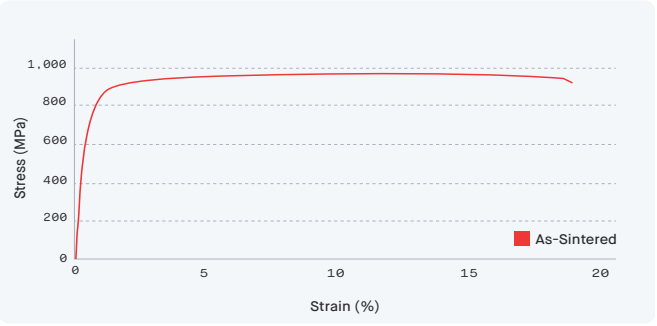
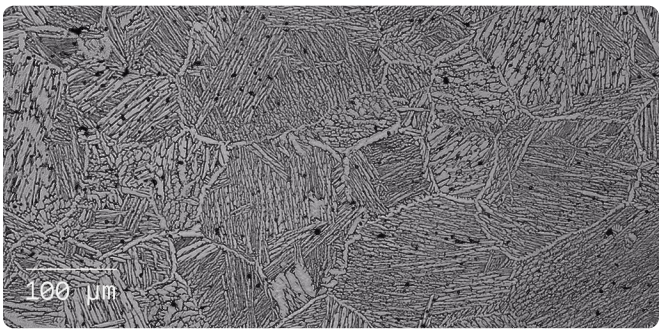
[Material Data Sheet]

Ti64
Titanium Alloy
PureSinter Furnace



COMPOSITION %

Ti	balance
Al	5.5 - 6.75
V	3.5 - 4.5



MECHANICAL PROPERTIES IN DESKTOP METAL PURESINTER FURNACE

	Standard	Studio System™ As-Sintered	ASTM F2885 Type 1[1] Densified Post Sintering	ASTM F2885 Type 2[1] As-Sintered
Ultimate tensile strength (MPa)	ASTM E8/E8M	**935 ± 4**	900	780
Yield strength (MPa)	ASTM E8M	**815 ± 22**	830	680
Elongation at break (%)	ASTM E8M	**12.1 ± 2.4**	10	10
Reduction in area	ASTM E8/E8M	**20.2 ± 4**	15	15
Hardness (HRC)	ASTM E18	**32 ± 0.8**		
Density (g/cm^3)		**4.36 ± 0.003**		
Density (%)		**98.1 ± 0.07**		

OTHER STANDARD DESIGNATIONS

AMS 4905	AMS 4954	GE C50TF12
AMS 4906	AMS 4965	MIL F-83412
AMS 4911	AMS 4967	MIL T-81556
AMS 4920	ASTM B265	MIL T-81915
AMS 4928	ASTM B348	MIL T-9046
AMS 4930	ASTM B381	MIL T-9047
AMS 4934	DIN 3.7164	SPS M618
AMS 4935	DMS 1570	

1. Per ASTM F2885 - 17 Standard Specification for Metal Injection Molded Titanium-6Aluminum-4Vanadium Components for Surgical Implant Applications.
End-use material performance is impacted (+/-) by certain factors including but not limited to part geometry and design, application and evaluation conditions, etc.
Tensile properties and density data reported are mean values minus 1 sigma. Samples are oriented in Xy and printed with a maximum wall thickness.

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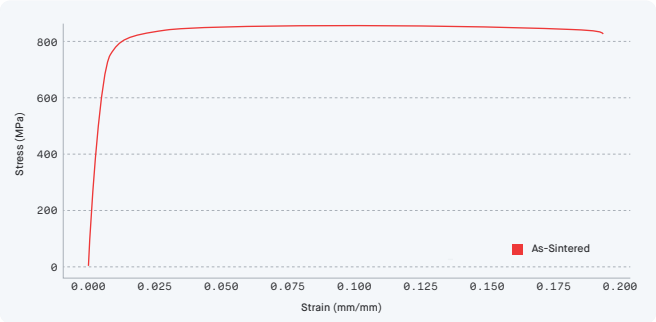
Ti64
Titanium Alloy



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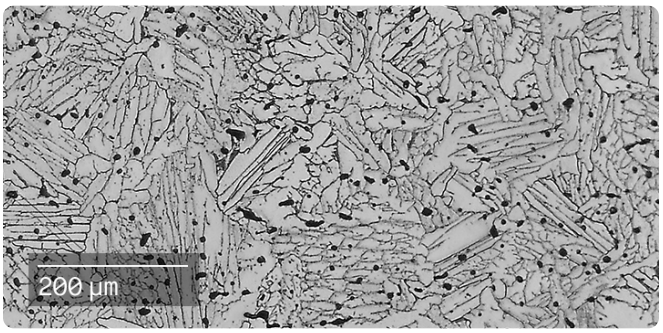

MECHANICAL PROPERTIES

	Standard	Studio System™ As-Sintered	MIM - ASTM F2885 Min[1] As-Sintered	MIM - ASTM F2885 Min[1] Densified Post Sintering
Ultimate tensile strength (MPa)	ASTM E8M	**845**	780	900
Yield strength (MPa)	ASTM E8M	**730**	680	830
Elongation (%)	ASTM E8M	**17**	10	10
Density (relative)	ASTM B311	**97.5 %**	96 %	98%

OTHER STANDARD DESIGNATIONS[4]

UNS R56400

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