

TITANIUM ALLOYS

Advamet® or Advacat® Ti-6Al-4V grade 5 Data sheet

Advamet® is a wax/polymer binder system;

Advacat® is a POM based (catalytic) binder system.

Both systems are compliant to ASTM B348 grade 5.

Typical Chemical Composition (post Sinter)

C (%)	O (%)	N (%)	H (%)	Fe (%)	Al (%)	V (%)	Ti (%)
0.08 max	0.20 max	0.05 max	0.015 max	0.40 max	5.5-6.75	3.5-4.5	balance

Other elements not to exceed 0.1% individually or 0.4% total.

All percentages are in weight percent.

Typical Mechanical Properties

Nominal Typical Values	Density (g/cm ³)	UTS (ksi)	YS (ksi)	Elongation (%)	Reduction of Area (%)
Ti64 Grade 5	4.42	130	120	10	25

Actual results depend on processing – sintering and heat treatment cycles – used.



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