

TITANIUM GR.5



Ti-6Al-4V alloy is the most widely used titanium alloy of the alpha-plus-beta class, and is also the most common of all titanium alloys. The alloy is castable and is utilized "as cast" in sporting goods. The wrought material is used in aerospace, medical, and other applications where moderate strength, good strength to weight, and favorable corrosion properties are required. The alloy is available as castings, wire, bar, plate, sheet, forgings, rings, and billet.

Chemical Properties

С	Fe	0	Н	N	Al	V	Y	Ti
0.08 Max	0.40 Max	0.2Max	0.125Max	0.05Max	5.5-6.75	3.5-4.5	0.005Max	Balance

Minimum Mechanical Properties

Yeild strength	Tensile strength	Elongation	Reduction	
Min 0.2% Mpa	Min Mpa	Min %	Min %	
828	895	10	25	As Specified
1034	1103	10	20	Solution Treated & aged
828	895	6	10	As Cast

Typical Mechanical Properties

	Yeild strength	Tensile strength	Elongation	Reduction	
	Min 0.2% Mpa	Min Mpa	Min %	Min %	
Ī	910	1000	18	40	As Specified
	970	1110	15	45	Solution Treated & aged
	895	1000	5	15	As Cast

Specification:

Product Form: Strip, Sheet, and Plate, Annealed AMS 4911

AMS 4920 Forgings, Alpha-Beta or Beta Processed, Annealed

AMS 4928 Bar, Wire, Forgings, Ring, Annealed

AMS 4965, AMS 4963, and AMS 4967 (Capable of) Bar, Wire, Forgings, Ring, Solution Treated & Aged AMS-T-9047

Bar and Billet, Annealed ASTM B348 (Grade 5)

ASTM B367 (Grade 5)

Wrought Alloy for Surgical Implants ASTM F1472

AWS A5.16 (ERTi-5)

Equivalent Designation

UNS R56400 Fn Name TiAl6V4

W.Nr. 3.7165 BS TA10-13: TA28 AFNOR T-A6V

Aerospace German WL 3.7164 Italian(UNI 10221) TiAl6V4-Type 5

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