

TITANIUM GR.9

TITANIUM ALLOY

CORROSION RESISTING ALLOYS WITH LOW DENSITY

Ti-3Al-2.5V alloy is an alpha alloy that is strengthened by cold working. The material exhibits good ductility and toughness. It is used in a wide range of tubular products from aircraft ducting to golf club shafts and bicycle frames. The alloy is available as wire, bar, sheet, seamless and welded tubing. ASME code approved.

Chemical Properties

C	Fe	O	H	N	Al	V	Ti
0.08 Max	0.25 Max	0.15 Max	0.015 Max	0.03 Max	2.5-3.5 max	2.0-3.0	Balance

Minimum Mechanical Properties

Yield strength	Tensile strength	Elongation	Reduction
Min 0.2% Mpa	Min Mpa	Min %	Min %
483	620	15	25

As Specified

Typical Mechanical Properties

Yield strength	Tensile strength	Elongation	Reduction
Min 0.2% Mpa	Min Mpa	Min %	Min %
515	690	18	40
830	910	11	--
723	860	8	--

As Specified
Solution Treated & aged
As Cast

Specification:

AMS 4943	Seamless Tubing, Annealed
AMS 4944	Seamless Tubing, Cold Worked, Stress Relieved
AMS 4945	Seamless Tubing, Texture Controlled, Cold Worked, Stress Relieved
ASTM B265	Sheet, Strip, Plate
ASTM B338	Tubing
ASTM B348 (Grade 9)	Wire, Bar, Sheet, and Plate
ASTM B381	
ASTM B861	Seamless Pipe
ASTM B862	Welded Pipe
AWS A5.16 (ERTi-9)	Weld Wire

Product Form:

Equivalent Designation

UNS R56400
W.Nr. 3.7195
PT3V
Italian (UNI 10221) TiAl3V2,5-Type 9
Aerospace German WL 3.7194

CUSTOMER ASSISTANCE : customer@TorqBolt.com