

# TITANIUM GR.6

# TITANIUM ALLOY

CORROSION RESISTING ALLOYS WITH LOW DENSITY

Ti-5Al-2.5Al has good weldability and shows stability and oxidation resistance at elevated temperatures (600 - 1000°F). Applications are forgings and sheet metal parts such as jet turbine compressor blades, ducting, and steam turbine blades. The alloy is a more difficult alloy to forge with a narrow forgeability range and greater yield loss. This alpha alloy is available in bar, billet, castings, extrusions, plate, sheet, and wire.

### Chemical Properties

C	Fe	O	H	N	Al	Sn	Y	Ti
0.08 Max	0.50 Max	0.20 Max	0.020 Max	0.05Max	4.5-5.75	2.0-3.0	0.005Max	Balance

### Minimum Mechanical Properties

Yield strength	Tensile strength	Elongation	Reduction
Min 0.2% Mpa	Min Mpa	Min %	Min %
758	792	10	25

### Typical Mechanical Properties

Yield strength	Tensile strength	Elongation	Reduction
Min 0.2% Mpa	Min Mpa	Min %	Min %
779	827	10	--

### Specification:

AMS 4910  
AMS 4926  
AMS 4966  
ASTM B265  
ASTM B348  
ASTM B381  
MIL-T-9046  
MIL-T-9047  
MIL-T-81556  
MIL-F-83142

### Product Form:

Strip, Sheet, and Plate, Annealed  
Bar and Ring, Annealed  
Forgings, Annealed  
Strip, Sheet, and Plate  
Bar and Billet  
Forgings  
Strip, Sheet, and Plate  
Bar, Re-forging  
Extrusions  
Forgings

### Equivalent Designation

UNS R54520  
Italian(UNI 10221) Ti2Pd-TiAl5Sn2,5-Type 6  
BT5-1  
Wr. No. 3.7115  
Aerospace German WL 3.7114

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