



Titanium Alloy - Titanium B-3

SPECIFICATIONS

Commercial	AMS-T-9046
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Titanium Alloy Ti-3Al-8V-4Mo-4Zr / UNS R58640 in sheet, strip and plate is used for high strength structural applications.

CHEMICAL COMPOSITION

AMS T 9046 Titanium Alloy	
Element	% Present
Vanadium (V)	7.5 - 8.5
Chromium (Cr)	5.5 - 6.5
Molybdenum (Mo)	3.5 - 4.5
Zirconium (Zr)	3.5 - 4.5
Aluminium (Al)	3 - 4
Others (Total)	0.4 max
Iron (Fe)	0.3 max
Oxygen (O)	0.12 max
Other (Each)	0.1 max
Carbon (C)	0.05 max
Nitrogen (N)	0.03 max
Hydrogen (H)	0.02 max
Yttrium (Y)	0.01 max
Titanium (Ti)	Balance

ALLOY DESIGNATIONS

Titanium B-3 / Ti-3Al-8V-4Mo-4Zr / UNS R58640 is similar to the following specifications **but may not be a direct equivalent:**

SAE AMS 4900
 SAE AMS 4901
 SAE AMS 4902
 SAE AMS 4907
 SAE AMS 4909
 SAE AMS 4910
 SAE AMS 4911
 SAE AMS 4911G
 SAE AMS 4915
 SAE AMS 4916
 SAE AMS 4917
 SAE AMS 4918
 SAE AMS 4919
 SAE AMS T 9046
 SAE MAM 4911

SUPPLIED FORMS

- Plate
- Sheet
- Strip

MECHANICAL PROPERTIES

AMS T 9046 Titanium Alloy	
Property	Value
Proof Stress	827 Max MPa
Tensile Strength	862 Min MPa
Elongation A50 mm	6 Min %

The Mechanical Properties shown are for the ST Conditions.

For the STA condition Minimum Proof 1172 is MPa and Minimum Tensile is 1241 MPa



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CONTACT

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REVISION HISTORY

Datasheet Updated	19 February 2015
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