

## SPECIFICATIONS

Commercial AMS-T-9046

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

## CONTACT

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## REVISION HISTORY

Datasheet Updated 19 February 2015

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