

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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