

TIMET TIMETAL® 15-3 Titanium Alloy (Ti-15V-3Cr-3Sn-3Al), Anneal Strip/Sheet

Category : Metal , Nonferrous Metal , Titanium Alloy , Beta Titanium Alloy

Material Notes:

High-Strength, Cold Formable Strip Alloy Industry Specifications: USA Aerospace: AMS 4914A. Features: Cold formable and weldable, this strip alloy is primarily used for aircraft ducting, pressure vessels and other fabricated sheet metal structures up to 300°C. Typical heat treatment for this alloy: Solution Treatment: 790°C for 3-20 min, air cool. Age Treatment: 480-620°C for 4-16 hrs. Data provided by TIMET.

Order this product through the following link:

http://www.lookpolymers.com/polymer_TIMET-TIMETAL-15-3-Titanium-Alloy-Ti-15V-3Cr-3Sn-3Al-Anneal-StripSheet.php

Physical Properties	Metric	English	Comments
Density	4.78 g/cc	0.173 lb/in ³	Typical

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	825 MPa	120000 psi	Typical
Tensile Strength, Yield	780 MPa @Strain 0.200 %	113000 psi @Strain 0.200 %	Typical
Elongation at Break	16 %	16 %	Typical
Modulus of Elasticity	70.0 GPa	10200 ksi	Typical
	82.0 GPa	11900 ksi	Alternate report from Timet
Bend Radius, Minimum	2.0 t @Thickness 2.00 mm	2.0 t @Thickness 0.0787 in	Typical; sheet

Thermal Properties	Metric	English	Comments
CTE, linear	8.60 µm/m-°C @Temperature 20.0 °C	4.78 µin/in-°F @Temperature 68.0 °F	
	9.20 µm/m-°C @Temperature 20.0 - 250 °C	5.11 µin/in-°F @Temperature 68.0 - 482 °F	
	9.90 µm/m-°C @Temperature 20.0 - 500 °C	5.50 µin/in-°F @Temperature 68.0 - 932 °F	
Specific Heat Capacity	0.500 J/g-°C	0.120 BTU/lb-°F	
Thermal Conductivity	8.30 W/m-K	57.6 BTU-in/hr-ft ² -°F	

Thermal Properties	Metric	English	Comments
Beta Transus	760 °C	1400 °F	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	2.5 - 3.5 %	2.5 - 3.5 %	
Carbon, C	<= 0.050 %	<= 0.050 %	
Chromium, Cr	2.5 - 3.5 %	2.5 - 3.5 %	
Hydrogen, H	<= 0.015 %	<= 0.015 %	
Iron, Fe	<= 0.25 %	<= 0.25 %	
Nitrogen, N	<= 0.050 %	<= 0.050 %	
Oxygen, O	<= 0.13 %	<= 0.13 %	
Tin, Sn	2.5 - 3.5 %	2.5 - 3.5 %	
Titanium, Ti	72.6 - 78.5 %	72.6 - 78.5 %	Calculated as remainder
Vanadium, V	14 - 16 %	14 - 16 %	

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