

TIMET 6-6-2 Titanium Alloy (Ti-6Al-6V-2Sn), Annealed

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

Material Notes:

Features: TIMETAL 6-6-2 offers improved strength properties and greater depth hardenability compared with TIMETAL 6-4. Data provided by TIMET.

Order this product through the following link:

http://www.lookpolymers.com/polymer_TIMET-6-6-2-Titanium-Alloy-Ti-6Al-6V-2Sn-Annealed.php

Physical Properties	Metric	English	Comments
Density	4.53 g/cc	0.164 lb/in ³	Typical

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	1090 MPa	158000 psi	Typical
Tensile Strength, Yield	1005 MPa @Strain 0.200 %	145800 psi @Strain 0.200 %	Typical
Elongation at Break	10 %	10 %	Typical
Modulus of Elasticity	115 GPa	16700 ksi	Typical
Fatigue Strength	490 MPa	71100 psi	Limit; test specifics not reported

Thermal Properties	Metric	English	Comments
Beta Transus	1050 °C	1920 °F	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	6.0 %	6.0 %	
Copper, Cu	0.50 %	0.50 %	
Iron, Fe	0.50 %	0.50 %	
Tin, Sn	2.0 %	2.0 %	
Titanium, Ti	85 %	85 %	Calculated as remainder
Vanadium, V	6.0 %	6.0 %	

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