

ATI Allegheny Ludlum Grade 5 Titanium 6Al-4V (UNS R56400)

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

Material Notes:

Uses: blades, discs, rings, airframe, fasteners, components, vessels, cases, hubs, forgings. Mechanical property data below is typical of annealed samples at room temperature. Information provided by Allegheny Ludlum.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allegheny-Ludlum-Grade-5-Titanium-6Al-4V-UNS-R56400.php

Physical Properties	Metric	English	Comments
Density	4.43 g/cc	0.160 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	35	35	
Tensile Strength, Ultimate	895 MPa	130000 psi	
Tensile Strength, Yield	828 MPa @Strain 0.200 %	120000 psi @Strain 0.200 %	
Elongation at Break	10 %	10 %	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	<= 6.5 %	<= 6.5 %	
Carbon, C	<= 0.080 %	<= 0.080 %	
Hydrogen, H	<= 0.015 %	<= 0.015 %	
Iron, Fe	<= 0.30 %	<= 0.30 %	
Nitrogen, N	<= 0.050 %	<= 0.050 %	
Oxygen, O	<= 0.20 %	<= 0.20 %	
Titanium, Ti	90 %	90 %	as balance
Vanadium, V	4.0 %	4.0 %	

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