

ATI Allegheny Ludlum Grade 23 (6-4 ELI) Titanium (UNS R56401)

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

Material Notes:

The ELI grade has lower impurity limits than standard titanium 6-4. Uses: applications requiring excellent fracture toughness and fatigue strength, aircraft, structural components, biomedical. 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-23-6-4-ELI-Titanium-UNS-R56401.php

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

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	30	30	
Tensile Strength, Ultimate	828 MPa	120000 psi	
Tensile Strength, Yield	759 MPa @Strain 0.200 %	110000 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	<= 0.25 %	<= 0.25 %	
Nitrogen, N	<= 0.030 %	<= 0.030 %	
Oxygen, O	<= 0.13 %	<= 0.13 %	
Titanium, Ti	90 %	90 %	as balance
Vanadium, V	4.0 %	4.0 %	

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