

ATI Allegheny Ludlum Grade 18 Titanium (UNS R56322)

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

Material Notes:

Uses: heat exchangers, industrial components, tubing. 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-18-Titanium-UNS-R56322.php

Physical Properties	Metric	English	Comments
Density	4.52 g/cc	0.163 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	25	25	
Tensile Strength, Ultimate	760 MPa	110000 psi	
Tensile Strength, Yield	655 MPa @Strain 0.200 %	95000 psi @Strain 0.200 %	
Elongation at Break	15 %	15 %	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	3.0 %	3.0 %	
Carbon, C	<= 0.050 %	<= 0.050 %	
Hydrogen, H	<= 0.015 %	<= 0.015 %	
Iron, Fe	<= 0.13 %	<= 0.13 %	
Nitrogen, N	<= 0.010 %	<= 0.010 %	
Oxygen, O	<= 0.10 %	<= 0.10 %	
Palladium, Pd	0.050 %	0.050 %	
Titanium, Ti	94.5 %	94.5 %	as balance
Vanadium, V	2.5 %	2.5 %	

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