

ATI Allvac® 38-644 UNS R58640 Titanium Alloy

Category : Metal , Nonferrous Metal , Titanium Alloy , Unalloyed/Modified Titanium

Material Notes:

High-strength, metastable beta alloy. Uses: Spring wire, fasteners, torsion bars for aerospace and automotive applications. Property values are for samples in the metallurgical condition: 1600°F anneal + water quench + age. Information provided by Allvac, An Allegheny Teledyne Company.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-38-644-UNS-R58640-Titanium-Alloy.php

Physical Properties	Metric	English	Comments
Density	4.81 g/cc	0.174 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	32	32	
Tensile Strength, Ultimate	1173 MPa	170100 psi	
Tensile Strength, Yield	1104 MPa @Strain 0.200 %	160100 psi @Strain 0.200 %	
Elongation at Break	8.0 %	8.0 %	
Reduction of Area	15 %	15 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.10 %	<= 0.10 %	
Hydrogen, H	<= 0.015 %	<= 0.015 %	
Iron, Fe	<= 0.30 %	<= 0.30 %	
Nitrogen, N	<= 0.030 %	<= 0.030 %	
Oxygen, O	<= 0.25 %	<= 0.25 %	
Palladium, Pd	0.12 - 0.25 %	0.12 - 0.25 %	
Titanium, Ti	99 %	99 %	as balance

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