

ATI Allvac® 6-2-4-2 Titanium Alloy, Heat Treatment: 982°C (1800°F) + Age

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

Material Notes:

Data provided by Allvac.Applications: High-temp jet engines. Blades, discs, spacers, seals. High performance automotive valves. Standard, rotor/premium grades.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-6-2-4-2-Titanium-Alloy-Heat-Treatment-982C-1800F-Age.php

Physical Properties	Metric	English	Comments
Density	4.54 g/cc	0.164 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	318	318	Estimated from Rockwell C value for Brinell test with 3000 kg load/10 mm diameter ball
Hardness, Knoop	346	346	Estimated from Rockwell C value.
Hardness, Rockwell C	34	34	
Hardness, Vickers	333	333	Estimated from Rockwell C value.
Tensile Strength, Ultimate	1035 MPa	150100 psi	
Tensile Strength, Yield	966 MPa @Strain 0.200 %	140000 psi @Strain 0.200 %	
Elongation at Break	15 %	15 %	
Reduction of Area	30 %	30 %	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	6.0 %	6.0 %	
Carbon, C	<= 0.10 %	<= 0.10 %	
Hydrogen, H	<= 0.015 %	<= 0.015 %	
Iron, Fe	0.050 %	0.050 %	
Molybdenum, Mo	2.0 %	2.0 %	
Nitrogen, N	0.040 %	0.040 %	
Oxygen, O	0.20 %	0.20 %	
Tin, Sn	2.0 %	2.0 %	

Component Elements Properties	Metric	English	Comments
Titanium, Ti	10.0 %	10.0 %	20.0 %
Zirconium, Zr	4.0 %	4.0 %	

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