

ATI Allvac® 8-1-1 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: Fan & compressor blades, discs, spacers, seals, rings. Excellent creep resistance. Standard, rotor/premium grades.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-8-1-1-Titanium-Alloy-Heat-Treatment-982C-1800F-Age.php

Physical Properties	Metric	English	Comments
Density	4.31 g/cc	0.156 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	326	326	Estimated from Rockwell C value for Brinell test with 3000 kg load/10 mm diameter ball
Hardness, Knoop	354	354	Estimated from Rockwell C value.
Hardness, Rockwell C	35	35	
Hardness, Vickers	341	341	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	40 %	40 %	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	8.0 %	8.0 %	
Carbon, C	0.030 %	0.030 %	
Hydrogen, H	<= 0.015 %	<= 0.015 %	
Iron, Fe	0.13 %	0.13 %	
Molybdenum, Mo	1.0 %	1.0 %	
Nitrogen, N	0.010 %	0.010 %	
Phosphorous, P	0.20 %	0.20 %	
Titanium, Ti	90 %	90 %	as balance

Component Elements Properties	Metric	English	Comments
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