

ATI Allvac® 3-2.5 Titanium Alloy, Heat Treatment: 704°C (1300°F) Anneal

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

Material Notes:

Data provided by Allvac.Applications: Excellent cold formability, 20-50% higher tensile properties than CP titanium grades. Primarily used in aircraft hydraulic systems.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-3-25-Titanium-Alloy-Heat-Treatment-704C-1300F-Anneal.php

Physical Properties	Metric	English	Comments
Density	4.48 g/cc	0.162 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	256	256	Estimated from Rockwell C value for Brinell test with 3000 kg load/10 mm diameter ball
Hardness, Knoop	278	278	Estimated from Rockwell C value.
Hardness, Rockwell C	24	24	
Hardness, Vickers	269	269	Estimated from Rockwell C value.
Tensile Strength, Ultimate	690 MPa	100000 psi	
Tensile Strength, Yield	586 MPa @Strain 0.200 %	85000 psi @Strain 0.200 %	
Elongation at Break	15 %	15 %	
Reduction of Area	25 %	25 %	

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 %	
Titanium, Ti	94 %	94 %	as balance
Vanadium, V	2.5 %	2.5 %	

Component Elements Properties

Metric

English

Comments

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