

ATI Allvac® 6-6-2 Titanium Alloy, Heat Treatment: 718°C (1325°F) Anneal

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

Material Notes:

Data provided by Allvac.Applications: Airframes, jet engines, rocket engine cases, nuclear reactor components, ordnance components.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-6-6-2-Titanium-Alloy-Heat-Treatment-718C-1325F-Anneal.php

Physical Properties	Metric	English	Comments
Density	4.54 g/cc	0.164 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	966 MPa	140000 psi	
Tensile Strength, Yield	897 MPa	130000 psi	0.2% Offset
Elongation at Break	15 %	15 %	
Reduction of Area	35 %	35 %	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	5.5 %	5.5 %	
Carbon, C	0.050 %	0.050 %	
Copper, Cu	0.50 %	0.50 %	
Hydrogen, H	<= 0.015 %	<= 0.015 %	
Iron, Fe	0.50 %	0.50 %	
Nitrogen, N	0.020 %	0.020 %	
Oxygen, O	0.20 %	0.20 %	
Tin, Sn	2.0 %	2.0 %	
Titanium, Ti	86 %	86 %	as balance

Vanadium V	5.5%	5.5%	
Component Elements Properties	Metric	English	Comments

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