

ATI Allvac® WASPALOY® Nickel Superalloy, Heat Treatment: 1010°C (1850°F) + Age

Category : Metal , Nonferrous Metal , Nickel Alloy , Superalloy

Material Notes:

Data provided by Allvac.Applications: Turbine compressor blades and discs, shafts, spacers, fasteners, miscellaneous jet engine hardware; space shuttle turbo pump seals.Waspaloy is a registered trademark of Pratt & Whitney Aircraft.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-WASPALOY-Nickel-Superalloy-Heat-Treatment-1010C-1850F-Age.php

Physical Properties	Metric	English	Comments
Density	8.19 g/cc	0.296 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	351	351	Estimated from Rockwell C value for Brinell test with 3000 kg load/10 mm diameter ball
Hardness, Knoop	382	382	Estimated from Rockwell C value.
Hardness, Rockwell C	38	38	
Hardness, Vickers	367	367	Estimated from Rockwell C value.
Tensile Strength, Ultimate	1276 MPa	185100 psi	
Tensile Strength, Yield	897 MPa @Strain 0.200 %	130000 psi @Strain 0.200 %	
Elongation at Break	23 %	23 %	
Reduction of Area	25 %	25 %	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	1.4 %	1.4 %	
Boron, B	0.010 %	0.010 %	
Carbon, C	0.050 %	0.050 %	
Chromium, Cr	19.5 %	19.5 %	
Cobalt, Co	13 %	13 %	
Iron, Fe	1.0 %	1.0 %	
Molybdenum, Mo	4.3 %	4.3 %	

Component Elements Properties	Metric	English	Comments
Titanium, Ti	3.0 %	3.0 %	
Zirconium, Zr	0.70 %	0.70 %	

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