

ATI Allvac® Astroloy Nickel Superalloy, Heat Treatment: 1163°C (2125°F) + Age

Category : Metal , Nonferrous Metal , Nickel Alloy , Superalloy

Material Notes:

Data provided by Allvac.Applications: Discs, rings, bolts for gas turbines.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-Astroloy-Nickel-Superalloy-Heat-Treatment-1163C-2125F-Age.php

Physical Properties	Metric	English	Comments
Density	7.91 g/cc	0.286 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	369	369	Estimated from Rockwell C value for Brinell test with 3000 kg load/10 mm diameter ball
Hardness, Knoop	403	403	Estimated from Rockwell C value.
Hardness, Rockwell C	40	40	
Hardness, Vickers	386	386	Estimated from Rockwell C value.
Tensile Strength, Ultimate	1241 MPa	180000 psi	
Tensile Strength, Yield	862 MPa @Strain 0.200 %	125000 psi @Strain 0.200 %	
Elongation at Break	12 %	12 %	
Reduction of Area	11 %	11 %	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	4.0 %	4.0 %	
Boron, B	0.025 %	0.025 %	
Carbon, C	0.040 %	0.040 %	
Chromium, Cr	15 %	15 %	
Cobalt, Co	17 %	17 %	
Molybdenum, Mo	5.0 %	5.0 %	
Nickel, Ni	55 %	55 %	as balance
Titanium, Ti	3.5 %	3.5 %	

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