

ATI Allvac® Nickelvac® 901 Nickel Superalloy, Heat Treatment: 1010°C (1850°F) + Age

Category : Metal , Nonferrous Metal , Nickel Alloy , Superalloy

Material Notes:

Data provided by Allvac.Applications: Turbine discs and shafts, compressor blades and discs, high-temperature bolting, high-temperature devices, cryogenics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-Nickelvac-901-Nickel-Superalloy-Heat-Treatment-1010C-1850F-Age.php

Physical Properties	Metric	English	Comments
Density	8.22 g/cc	0.297 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	334	334	Estimated from Rockwell C value for Brinell test with 3000 kg load/10 mm diameter ball
Hardness, Knoop	363	363	Estimated from Rockwell C value.
Hardness, Rockwell C	36	36	
Hardness, Vickers	349	349	Estimated from Rockwell C value.
Tensile Strength, Ultimate	1276 MPa	185100 psi	
Tensile Strength, Yield	1172 MPa @Strain 0.200 %	170000 psi @Strain 0.200 %	
Elongation at Break	25 %	25 %	
Reduction of Area	40 %	40 %	

Component Elements Properties	Metric	English	Comments
Boron, B	0.015 %	0.015 %	
Carbon, C	0.050 %	0.050 %	
Chromium, Cr	12.5 %	12.5 %	
Iron, Fe	36 %	36 %	as balance
Molybdenum, Mo	6.0 %	6.0 %	
Nickel, Ni	43 %	43 %	
Titanium, Ti	2.8 %	2.8 %	

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