

ATI Allvac® 720 Nickel Superalloy, Heat Treatment: 1093°C (2000°F) + Age

Category : Metal , Nonferrous Metal , Nickel Alloy , Superalloy

Material Notes:

Data provided by Allvac.Applications: Wheels, jet engine turbine discs and blades.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-720-Nickel-Superalloy-Heat-Treatment-1093C-2000F-Age.php

Physical Properties	Metric	English	Comments
Density	8.08 g/cc	0.292 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	400	400	Estimated from Rockwell C value for Brinell test with 3000 kg load/10 mm diameter ball
Hardness, Knoop	437	437	Estimated from Rockwell C value.
Hardness, Rockwell C	43	43	
Hardness, Vickers	418	418	Estimated from Rockwell C value.
Tensile Strength, Ultimate	1517 MPa	220000 psi	
Tensile Strength, Yield	1104 MPa @Strain 0.200 %	160100 psi @Strain 0.200 %	
Elongation at Break	15 %	15 %	
Reduction of Area	15 %	15 %	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	2.5 %	2.5 %	
Boron, B	0.020 %	0.020 %	
Carbon, C	0.015 %	0.015 %	
Chromium, Cr	18 %	18 %	
Cobalt, Co	14.75 %	14.75 %	
Molybdenum, Mo	3.0 %	3.0 %	
Nickel, Ni	55 %	55 %	as balance
Titanium, Ti	5.0 %	5.0 %	

Tungsten W	1.28 %	1.28 %	
Component Elements Properties	Metric	English	Comments
Zirconium, Zr	0.040 %	0.040 %	

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