

ATI Allvac® 520 Nickel Superalloy, Heat Treatment: 1121°C (2050°F) + Age

Category : Metal , Nonferrous Metal , Nickel Alloy , Superalloy

Material Notes:

Data provided by Allvac.Applications: Land based gas turbine blades.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-520-Nickel-Superalloy-Heat-Treatment-1121C-2050F-Age.php

Physical Properties	Metric	English	Comments
Density	8.22 g/cc	0.297 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	1310 MPa	190000 psi	
Tensile Strength, Yield	828 MPa @Strain 0.200 %	120000 psi @Strain 0.200 %	
Elongation at Break	20 %	20 %	
Reduction of Area	18 %	18 %	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	2.0 %	2.0 %	
Boron, B	0.0070 %	0.0070 %	
Carbon, C	0.050 %	0.050 %	
Chromium, Cr	19 %	19 %	
Cobalt, Co	12 %	12 %	
Molybdenum, Mo	6.0 %	6.0 %	
Nickel, Ni	57 %	57 %	as balance
Titanium, Ti	3.0 %	3.0 %	

Tungsten W	1.0%	1.0%	
Component Elements Properties	Metric	English	Comments

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