

ATI Allvac® Nickelvac® N-90 Nickel Superalloy, Heat Treatment: 1066°C (1950°F) + Age

Category : Metal , Nonferrous Metal , Nickel Alloy , Superalloy

Material Notes:

Data provided by Allvac.Applications: Turbine blades and other jet engine components. Valves for internal combustion engines.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-Nickelvac-N-90-Nickel-Superalloy-Heat-Treatment-1066C-1950F-Age.php

Physical Properties	Metric	English	Comments
Density	8.11 g/cc	0.293 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	278	278	Estimated from Rockwell C value for Brinell test with 3000 kg load/10 mm diameter ball
Hardness, Knoop	301	301	Estimated from Rockwell C value.
Hardness, Rockwell C	28	28	
Hardness, Vickers	292	292	Estimated from Rockwell C value.
Tensile Strength, Ultimate	1207 MPa	175100 psi	
Tensile Strength, Yield	517 MPa @Strain 0.200 %	75000 psi @Strain 0.200 %	
Elongation at Break	30 %	30 %	
Reduction of Area	35 %	35 %	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	1.4 %	1.4 %	
Carbon, C	0.065 %	0.065 %	
Chromium, Cr	19.5 %	19.5 %	
Cobalt, Co	18 %	18 %	
Iron, Fe	0.30 %	0.30 %	
Nickel, Ni	58 %	58 %	as balance
Titanium, Ti	2.4 %	2.4 %	

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