

ATI Allvac® 718 Nickel Superalloy, Heat Treatment: 982°C (1800°F) + Age

Category : Metal , Nonferrous Metal , Nickel Alloy , Superalloy

Material Notes:

Data provided by Allvac.Applications: Jet engine rings, discs, shafts, compressor blades, seals, spacers. Fasteners, nuclear, oil & gas components.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-718-Nickel-Superalloy-Heat-Treatment-982C-1800F-Age.php

Physical Properties	Metric	English	Comments
Density	8.19 g/cc	0.296 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	389	389	Estimated from Rockwell C value for Brinell test with 3000 kg load/10 mm diameter ball
Hardness, Knoop	425	425	Estimated from Rockwell C value.
Hardness, Rockwell C	42	42	
Hardness, Vickers	407	407	Estimated from Rockwell C value.
Tensile Strength, Ultimate	1345 MPa	195100 psi	
Tensile Strength, Yield	1104 MPa @Strain 0.200 %	160100 psi @Strain 0.200 %	
Elongation at Break	22 %	22 %	
Reduction of Area	35 %	35 %	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	0.50 %	0.50 %	
Carbon, C	0.020 %	0.020 %	
Chromium, Cr	19 %	19 %	
Iron, Fe	17 %	17 %	as balance
Molybdenum, Mo	3.1 %	3.1 %	
Nickel, Ni	54 %	54 %	
Niobium, Nb (Columbium, Cb)	5.2 %	5.2 %	
Titanium, Ti	0.90 %	0.90 %	

Component Elements Properties

Metric

English

Comments

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