

ATI Allvac® M-252 Nickel Superalloy, Heat Treatment: 1177°C (2150°F) Anneal

Category : Metal , Nonferrous Metal , Nickel Alloy , Superalloy

Material Notes:

Applications: Turbine blades, fasteners, and high temperature bolting.Data provided by Allvac.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-M-252-Nickel-Superalloy-Heat-Treatment-1177C-2150F-Anneal.php

Physical Properties	Metric	English	Comments
Density	8.24 g/cc	0.298 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	318	318	Estimated from Rockwell C value for Brinell test with 3000 kg load/10 mm diameter ball
Hardness, Knoop	346	346	Estimated from Rockwell C value.
Hardness, Rockwell C	34	34	
Hardness, Vickers	333	333	Estimated from Rockwell C value.
Tensile Strength, Ultimate	1379 MPa	200000 psi	
Tensile Strength, Yield	345 MPa @Strain 0.200 %	50000 psi @Strain 0.200 %	
Elongation at Break	50 %	50 %	
Reduction of Area	50 %	50 %	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	1.0 %	1.0 %	
Boron, B	0.0070 %	0.0070 %	
Carbon, C	0.015 %	0.015 %	
Chromium, Cr	19 %	19 %	
Cobalt, Co	10 %	10 %	
Iron, Fe	2.5 %	2.5 %	
Molybdenum, Mo	9.75 %	9.75 %	
Nickel, Ni	55 %	55 %	as balance

Titanium Ti	2.5%	2.5%	
Component Elements Properties	Metric	English	Comments

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