

ATI Allvac® Nickelvac® 625 Nickel Superalloy, Heat Treatment: 927°C (1700°F) Anneal

Category : Metal , Nonferrous Metal , Nickel Alloy , Superalloy

Material Notes:

Data provided by Allvac.Applications: Engine ducting, nozzles, thrust reverser assemblies, combustion systems, afterburner and spray bars, CPI and nuclear uses.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-Nickelvac-625-Nickel-Superalloy-Heat-Treatment-927C-1700F-Anneal.php

Physical Properties	Metric	English	Comments
Density	8.44 g/cc	0.305 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	95	95	
Tensile Strength, Ultimate	897 MPa	130000 psi	
Tensile Strength, Yield	483 MPa @Strain 0.200 %	70100 psi @Strain 0.200 %	
Elongation at Break	40 %	40 %	
Reduction of Area	50 %	50 %	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	0.30 %	0.30 %	
Carbon, C	0.050 %	0.050 %	
Chromium, Cr	21.5 %	21.5 %	
Iron, Fe	2.5 %	2.5 %	
Molybdenum, Mo	9.0 %	9.0 %	
Nickel, Ni	63 %	63 %	as balance
Niobium, Nb (Columbium, Cb)	3.7 %	3.7 %	
Titanium, Ti	0.30 %	0.30 %	

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