

ATI Allvac® Nickelvac® HC-276 Nickel Superalloy, Heat Treatment: 1121°C (2050°F) Anneal

Category : Metal , Nonferrous Metal , Nickel Alloy , Superalloy

Material Notes:

Data provided by Allvac.Applications: High temperature applications also requiring good resistance to corrosive fluids, such as liquids and combustion products.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-Nickelvac-HC-276-Nickel-Superalloy-Heat-Treatment-1121C-2050F-Anneal.php

Physical Properties	Metric	English	Comments
Density	8.94 g/cc	0.323 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	80	80	
Tensile Strength, Ultimate	793 MPa	115000 psi	
Tensile Strength, Yield	310 MPa @Strain 0.200 %	45000 psi @Strain 0.200 %	
Elongation at Break	65 %	65 %	
Reduction of Area	75 %	75 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.010 %	0.010 %	
Chromium, Cr	15.5 %	15.5 %	
Cobalt, Co	0.50 %	0.50 %	
Iron, Fe	5.0 %	5.0 %	
Molybdenum, Mo	16 %	16 %	
Nickel, Ni	59 %	59 %	as balance
Tungsten, W	3.5 %	3.5 %	

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