

ATI Allvac® Nickelvacc® 400 UNS N04400 Nickel Superalloy

Category : Metal , Nonferrous Metal , Nickel Alloy , Superalloy

Material Notes:

Nickel-Copper solid solution alloy. Uses: Equipment for mineral acids, brines, alkalis, offshore engineering, marine applications. Property values are for samples in the metallurgical condition: 1650°F anneal. Information provided by Allvac, An Allegheny Teledyne Company.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-Nickelvacc-400-UNS-N04400-Nickel-Superalloy.php

Physical Properties	Metric	English	Comments
Density	8.83 g/cc	0.319 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	70	70	
Tensile Strength, Ultimate	551 MPa	79900 psi	
Tensile Strength, Yield	241 MPa @Strain 0.200 %	35000 psi @Strain 0.200 %	
Elongation at Break	40 %	40 %	
Reduction of Area	70 %	70 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.15 %	0.15 %	
Copper, Cu	31 %	31 %	
Iron, Fe	1.2 %	1.2 %	
Manganese, Mn	1.0 %	1.0 %	
Nickel, Ni	66 %	66 %	
Silicon, Si	0.25 %	0.25 %	
Sulfur, S	0.010 %	0.010 %	

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