

ATI Allvac® Nickelvacc® 601 UNS N06601 Nickel Superalloy

Category : Metal , Nonferrous Metal , Nickel Alloy , Superalloy

Material Notes:

Uses: Weld wire, woven wire mesh belts, rod for heat treat baskets, heat treat fixtures. Property values are for samples in the metallurgical condition: 1950°C anneal. Information provided by Allvac, An Allegheny Teledyne Company.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-Nickelvacc-601-UNS-N06601-Nickel-Superalloy.php

Physical Properties	Metric	English	Comments
Density	8.05 g/cc	0.291 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	65	65	
Tensile Strength, Ultimate	621 MPa	90100 psi	
Tensile Strength, Yield	207 MPa @Strain 0.200 %	30000 psi @Strain 0.200 %	
Elongation at Break	55 %	55 %	
Reduction of Area	65 %	65 %	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	1.3 %	1.3 %	
Carbon, C	0.050 %	0.050 %	
Chromium, Cr	23 %	23 %	
Copper, Cu	0.50 %	0.50 %	
Iron, Fe	14 %	14 %	as balance
Manganese, Mn	0.50 %	0.50 %	
Nickel, Ni	60.5 %	60.5 %	
Silicon, Si	0.20 %	0.20 %	
Sulfur, S	0.0080 %	0.0080 %	

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