

ATI Allvac® Nickelvac® 606 Nickel Superalloy

Category : Metal , Nonferrous Metal , Nickel Alloy , Superalloy

Material Notes:

Uses: Weld wire, woven wire mesh belts. Property values are for samples in the metallurgical condition: 2000°F anneal + water quench. Information provided by Allvac, An Allegheny Teledyne Company.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-Nickelvac-606-Nickel-Superalloy.php

Physical Properties	Metric	English	Comments
Density	8.36 g/cc	0.302 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	70	70	
Tensile Strength, Ultimate	759 MPa	110000 psi	
Tensile Strength, Yield	276 MPa @Strain 0.200 %	40000 psi @Strain 0.200 %	
Elongation at Break	55 %	55 %	
Reduction of Area	90 %	90 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.040 %	0.040 %	
Chromium, Cr	20 %	20 %	
Copper, Cu	<= 0.50 %	<= 0.50 %	
Iron, Fe	<= 3.0 %	<= 3.0 %	
Manganese, Mn	3.0 %	3.0 %	
Nb + Ta	2.5 %	2.5 %	
Nickel, Ni	67 %	67 %	also includes cobalt
Silicon, Si	0.20 %	0.20 %	
Sulfur, S	0.010 %	0.010 %	
Titanium, Ti	0.30 %	0.30 %	

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