

ATI Allvac® Nickelvac® H-B-2 UNS N10665 Nickel Superalloy

Category : Metal , Nonferrous Metal , Nickel Alloy , Superalloy

Material Notes:

Vessels, pumps, valves, piping systems for the production of hydrochloric, sulfuric, acetic, and phosphoric acids. Property values are for samples in the metallurgical condition: 1600°F age. Information provided by Allvac, An Allegheny Teledyne Company.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-Nickelvac-H-B-2-UNS-N10665-Nickel-Superalloy.php

Physical Properties	Metric	English	Comments
Density	9.21 g/cc	0.333 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	90	90	
Tensile Strength, Ultimate	862 MPa	125000 psi	
Tensile Strength, Yield	379 MPa @Strain 0.200 %	55000 psi @Strain 0.200 %	
Elongation at Break	60 %	60 %	
Reduction of Area	55 %	55 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.010 %	0.010 %	
Chromium, Cr	0.50 %	0.50 %	
Cobalt, Co	0.50 %	0.50 %	
Iron, Fe	1.0 %	1.0 %	
Manganese, Mn	0.50 %	0.50 %	
Molybdenum, Mo	16 %	16 %	
Nickel, Ni	81 %	81 %	as balance
Phosphorous, P	0.020 %	0.020 %	
Silicon, Si	0.050 %	0.050 %	
Sulfur, S	0.015 %	0.015 %	

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