

ATI Allvac® Nickelvac® 825 UNS N08825 Nickel Superalloy

Category : Metal , Superalloy , Iron Base

Material Notes:

Uses: Downhole tubulars for deep, corrosive wells. Pollution control, scrubber, and radwaste systems. CPI process piping systems. Property values are for samples in the metallurgical condition: 2100°C anneal. Information provided by Allvac, An Allegheny Teledyne Company.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-Nickelvac-825-UNS-N08825-Nickel-Superalloy.php

Physical Properties	Metric	English	Comments
Density	8.13 g/cc	0.294 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	80	80	
Tensile Strength, Ultimate	551 MPa	79900 psi	
Tensile Strength, Yield	186 MPa @Strain 0.200 %	27000 psi @Strain 0.200 %	
Elongation at Break	40 %	40 %	
Reduction of Area	70 %	70 %	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	0.10 %	0.10 %	
Carbon, C	0.020 %	0.020 %	
Chromium, Cr	21.5 %	21.5 %	
Copper, Cu	2.2 %	2.2 %	
Iron, Fe	30 %	30 %	as balance
Manganese, Mn	0.50 %	0.50 %	
Molybdenum, Mo	3.0 %	3.0 %	
Nickel, Ni	42 %	42 %	
Phosphorous, P	0.010 %	0.010 %	
Silicon, Si	0.25 %	0.25 %	
Sulfur, S	0.010 %	0.010 %	

Titanium Ti	0.90 %	0.90 %	
Component Elements Properties	Metric	English	Comments

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