

## ATI Allvac® Nickelvac® 800 & 800-H UNS N08800 & UNS N08810 Nickel Superalloy

Category : Metal , Superalloy , Iron Base

**Material Notes:**

Corrosion-resistant alloy for petrochemical and food processing equipment, tubing, heat exchangers, and furnaces. Property values are for samples in the metallurgical condition: 2100°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-800-800-H-UNS-N08800-UNS-N08810-Nickel-Superalloy.php](http://www.lookpolymers.com/polymer_ATI-Allvac-Nickelvac-800-800-H-UNS-N08800-UNS-N08810-Nickel-Superalloy.php)

Physical Properties	Metric	English	Comments
Density	7.94 g/cc	0.287 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	72	72	
Tensile Strength, Ultimate	586 MPa	85000 psi	
Tensile Strength, Yield	262 MPa @Strain 0.200 %	38000 psi @Strain 0.200 %	
Elongation at Break	50 %	50 %	
Reduction of Area	76 %	76 %	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	0.37 %	0.37 %	
Carbon, C	0.050 %	0.050 %	
Chromium, Cr	21 %	21 %	
Copper, Cu	0.37 %	0.37 %	
Iron, Fe	44 %	44 %	as balance
Manganese, Mn	0.75 %	0.75 %	
Nickel, Ni	32.5 %	32.5 %	
Silicon, Si	0.50 %	0.50 %	
Sulfur, S	0.0070 %	0.0070 %	
Titanium, Ti	0.37 %	0.37 %	

## **Contact Songhan Plastic Technology Co.,Ltd.**

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