

## ATI Allvac® Nickelvac® 80 A UNS N07080 Nickel Superalloy

Category : Metal , Nonferrous Metal , Nickel Alloy , Superalloy

**Material Notes:**

Uses: Components for gas turbine engines, exhaust valve stock for internal combustion engines, high temperature bolts & fasteners. Property values are for samples in the metallurgical condition: 1700°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-80-A-UNS-N07080-Nickel-Superalloy.php](http://www.lookpolymers.com/polymer_ATI-Allvac-Nickelvac-80-A-UNS-N07080-Nickel-Superalloy.php)

Physical Properties	Metric	English	Comments
Density	8.16 g/cc	0.295 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	39	39	
Tensile Strength, Ultimate	1310 MPa	190000 psi	
Tensile Strength, Yield	965 MPa @Strain 0.200 %	140000 psi @Strain 0.200 %	
Elongation at Break	21 %	21 %	
Reduction of Area	25 %	25 %	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	1.4 %	1.4 %	
Boron, B	0.0020 %	0.0020 %	
Carbon, C	0.050 %	0.050 %	
Chromium, Cr	19.5 %	19.5 %	
Cobalt, Co	1.0 %	1.0 %	
Copper, Cu	0.10 %	0.10 %	
Iron, Fe	1.5 %	1.5 %	
Manganese, Mn	0.50 %	0.50 %	
Nickel, Ni	70 %	70 %	
Phosphorous, P	0.020 %	0.020 %	
Silicon, Si	0.50 %	0.50 %	

Component Elements Properties	Metric	English	Comments
Titanium, Ti	2.38 %	2.38 %	

## Contact Songhan Plastic Technology Co.,Ltd.

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