

## ATI Allvac® Nickelvac® K-500 UNS N05500 Nickel Superalloy

Category : Metal , Nonferrous Metal , Nickel Alloy , Superalloy

### Material Notes:

Uses: Pump and drive shafts, impellers, valve components, springs, fasteners, oil well packers, subsurface safety valves. Property values are for samples in the metallurgical condition: 1600°F anneal + water quench + age. Information provided by Allvac, An Allegheny Teledyne Company.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ATI-Allvac-Nickelvac-K-500-UNS-N05500-Nickel-Superalloy.php](http://www.lookpolymers.com/polymer_ATI-Allvac-Nickelvac-K-500-UNS-N05500-Nickel-Superalloy.php)

Physical Properties	Metric	English	Comments
Density	8.45 g/cc	0.305 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	27	27	
Tensile Strength, Ultimate	1000 MPa	145000 psi	
Tensile Strength, Yield	655 MPa @Strain 0.200 %	95000 psi @Strain 0.200 %	
Elongation at Break	22 %	22 %	
Reduction of Area	40 %	40 %	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	2.7 %	2.7 %	
Carbon, C	0.10 %	0.10 %	
Copper, Cu	29 %	29 %	
Iron, Fe	1.0 %	1.0 %	
Manganese, Mn	0.70 %	0.70 %	
Nickel, Ni	66 %	66 %	
Silicon, Si	0.25 %	0.25 %	
Sulfur, S	0.010 %	0.010 %	
Tungsten, W	0.60 %	0.60 %	

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