

**ATI Allvac® 35N Nickel Superalloy, Heat Treatment: 1052°C (1925°F) + Age**

Category : Metal , Nonferrous Metal , Cobalt Alloy , Nickel Alloy , Superalloy

**Material Notes:**

Data provided by Allvac.Applications: Aircraft fasteners. Line wire for down-hole instrumentation. Biomedical devices, high fatigue strength applications.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ATI-Allvac-35N-Nickel-Superalloy-Heat-Treatment-1052C-1925F-Age.php](http://www.lookpolymers.com/polymer_ATI-Allvac-35N-Nickel-Superalloy-Heat-Treatment-1052C-1925F-Age.php)

Physical Properties	Metric	English	Comments
Density	8.41 g/cc	0.304 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	278	278	Estimated from Rockwell C value for Brinell test with 3000 kg load/10 mm diameter ball
Hardness, Knoop	301	301	Estimated from Rockwell C value.
Hardness, Rockwell C	28	28	
Hardness, Vickers	292	292	Estimated from Rockwell C value.
Tensile Strength, Ultimate	897 MPa	130000 psi	
Tensile Strength, Yield	517 MPa @Strain 0.200 %	75000 psi @Strain 0.200 %	
Elongation at Break	30 %	30 %	
Reduction of Area	35 %	35 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.013 %	0.013 %	
Chromium, Cr	20 %	20 %	
Cobalt, Co	35 %	35 %	as balance
Molybdenum, Mo	9.8 %	9.8 %	
Nickel, Ni	35 %	35 %	

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