

ATI Allvac® Nickelvacc® 43-40 UNS G43400, UNS H43400 Specialty Steel

Category : Metal , Ferrous Metal , Alloy Steel , AISI 4000 Series Steel , Low Alloy Steel , Carbon Steel , Low Carbon Steel

Material Notes:

Uses: Automotive applications, structural components, gears, rods, heat-treatable shafts. Property values are for samples in the metallurgical condition: 1550°F quench + 1000°F temper. Information provided by Allvac, An Allegheny Teledyne Company.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-Nickelvacc-43-40-UNS-G43400-UNS-H43400-Specialty-Steel.php

Physical Properties	Metric	English	Comments
Density	7.83 g/cc	0.283 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	52	52	
Tensile Strength, Ultimate	1964 MPa	284900 psi	
Tensile Strength, Yield	1861 MPa @Strain 0.200 %	269900 psi @Strain 0.200 %	
Elongation at Break	10 %	10 %	
Reduction of Area	38 %	38 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.40 %	0.40 %	
Chromium, Cr	0.80 %	0.80 %	
Iron, Fe	96 %	96 %	as balance
Manganese, Mn	0.70 %	0.70 %	
Molybdenum, Mo	0.25 %	0.25 %	
Nickel, Ni	1.83 %	1.83 %	
Phosphorous, P	0.020 %	0.020 %	
Silicon, Si	0.23 %	0.23 %	
Sulfur, S	0.020 %	0.020 %	

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