

ATI Allvac® 9310 UNS G93106, UNS H93100 Specialty Steel

Category : Metal , Ferrous Metal , Alloy Steel , AISI 9000 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: 1630°F normalized. Information provided by Allvac, An Allegheny Teledyne Company.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-9310-UNS-G93106-UNS-H93100-Specialty-Steel.php

Physical Properties	Metric	English	Comments
Density	7.86 g/cc	0.284 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	27	27	
Tensile Strength, Ultimate	907 MPa	132000 psi	
Tensile Strength, Yield	571 MPa @Strain 0.200 %	82800 psi @Strain 0.200 %	
Elongation at Break	19 %	19 %	
Reduction of Area	58 %	58 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.10 %	0.10 %	
Chromium, Cr	1.2 %	1.2 %	
Iron, Fe	94 %	94 %	as balance
Manganese, Mn	0.55 %	0.55 %	
Molybdenum, Mo	0.12 %	0.12 %	
Nickel, Ni	3.33 %	3.33 %	
Phosphorous, P	0.010 %	0.010 %	
Silicon, Si	0.25 %	0.25 %	
Sulfur, S	0.010 %	0.010 %	

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