

ATI Allvac® Vasco® 440 C UNS S44004 Specialty Steel

Category : Metal , Ferrous Metal , Stainless Steel , T 400 Series Stainless Steel

Material Notes:

Uses: Bearing applications including ball bearing assemblies, valve seats and stems, check valve components, bushings. Property values are for samples in the metallurgical condition: 1525FC Quench + 317 Temper .Information provided by Allvac, An Allegheny Teledyne Company.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-Vasco-440-C-UNS-S44004-Specialty-Steel.php

Physical Properties	Metric	English	Comments
Density	7.75 g/cc	0.280 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	57	57	
Tensile Strength, Ultimate	1964 MPa	284900 psi	
Tensile Strength, Yield	1895 MPa @Strain 0.200 %	274800 psi @Strain 0.200 %	
Elongation at Break	2.0 %	2.0 %	
Reduction of Area	10 %	10 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	1.6 %	1.6 %	
Chromium, Cr	17.08 %	17.08 %	
Iron, Fe	80 %	80 %	as balance
Manganese, Mn	0.50 %	0.50 %	
Molybdenum, Mo	0.38 %	0.38 %	
Phosphorous, P	0.020 %	0.020 %	
Silicon, Si	0.50 %	0.50 %	
Sulfur, S	0.015 %	0.015 %	

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