

ATI Allvac® Vasco® 422 Specialty Steel, Heat Treatment: 1038°C (1900°F) Anneal

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

Material Notes:

Data provided by Allvac.Applications: Jet engine parts, brackets, disks, bolts, blades fasteners, aircraft components. Parts for steam and gas turbines, engines.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-Vasco-422-Specialty-Steel-Heat-Treatment-1038C-1900F-Anneal.php

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

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	290	290	Estimated from Rockwell C value for Brinell test with 3000 kg load/10 mm diameter ball
Hardness, Knoop	315	315	Estimated from Rockwell C value.
Hardness, Rockwell C	30	30	
Hardness, Vickers	304	304	Estimated from Rockwell C value.
Tensile Strength, Ultimate	897 MPa	130000 psi	
Tensile Strength, Yield	828 MPa @Strain 0.200 %	120000 psi @Strain 0.200 %	
Elongation at Break	15 %	15 %	
Reduction of Area	40 %	40 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.23 %	0.23 %	
Chromium, Cr	12.5 %	12.5 %	
Iron, Fe	83 %	83 %	as balance
Manganese, Mn	0.50 %	0.50 %	
Molybdenum, Mo	1.0 %	1.0 %	
Nickel, Ni	0.80 %	0.80 %	
Phosphorous, P	0.020 %	0.020 %	

Component Elements Properties	Metric	English	Comments
Sulfur, S	0.015 %	0.015 %	
Tungsten, W	1.0 %	1.0 %	
Vanadium, V	0.23 %	0.23 %	

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