

ATI Allvac® Vasco® 17-4 Precipitation Hardening Steel, Heat Treatment: 1038°C (1900°F) + Age

Category : Metal , Ferrous Metal , Stainless Steel , Precipitation Hardening Stainless

Material Notes:

Data provided by Allvac.Applications: Aircraft and missile fittings, fasteners, gears. Turbine and pump blades, shafts.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-Vasco-17-4-Precipitation-Hardening-Steel-Heat-Treatment-1038C-1900F-Age.php

Physical Properties	Metric	English	Comments
Density	7.78 g/cc	0.281 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	351	351	Estimated from Rockwell C value for Brinell test with 3000 kg load/10 mm diameter ball
Hardness, Knoop	382	382	Estimated from Rockwell C value.
Hardness, Rockwell C	38	38	
Hardness, Vickers	367	367	Estimated from Rockwell C value.
Tensile Strength, Ultimate	1172 MPa	170000 psi	
Tensile Strength, Yield	1069 MPa @Strain 0.200 %	155000 psi @Strain 0.200 %	
Elongation at Break	>= 10 %	>= 10 %	
Reduction of Area	>= 40 %	>= 40 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.035 %	0.035 %	
Chromium, Cr	16.3 %	16.3 %	
Copper, Cu	4.0 %	4.0 %	
Iron, Fe	74 %	74 %	as balance
Manganese, Mn	0.50 %	0.50 %	
Nickel, Ni	4.0 %	4.0 %	
Niobium, Nb (Columbium, Cb)	0.30 %	0.30 %	
Phosphorous, P	0.020 %	0.020 %	

Component Elements Properties	Metric	English	Comments
Sulfur, S	0.015 %	0.015 %	

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