

ATI Allvac® Vasco® 13-8Mo Precipitation Hardening Steel, Heat Treatment: 927°C (1700°F) + Age

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

Material Notes:

Data provided by Allvac.Applications: Airframe structurals, missile components, valve parts, fasteners, chemical process equipment.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-Vasco-13-8Mo-Precipitation-Hardening-Steel-Heat-Treatment-927C-1700F-Age.php

Physical Properties	Metric	English	Comments
Density	7.72 g/cc	0.279 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	411	411	Estimated from Rockwell C value for Brinell test with 3000 kg load/10 mm diameter ball
Hardness, Knoop	450	450	Estimated from Rockwell C value.
Hardness, Rockwell C	44	44	
Hardness, Vickers	430	430	Estimated from Rockwell C value.
Tensile Strength, Ultimate	1483 MPa	215100 psi	
Tensile Strength, Yield	1379 MPa @Strain 0.200 %	200000 psi @Strain 0.200 %	
Elongation at Break	>= 10 %	>= 10 %	
Reduction of Area	>= 40 %	>= 40 %	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	1.05 %	1.05 %	
Carbon, C	0.050 %	0.050 %	
Chromium, Cr	12.8 %	12.8 %	
Iron, Fe	76 %	76 %	as balance
Manganese, Mn	0.10 %	0.10 %	
Molybdenum, Mo	2.3 %	2.3 %	
Nickel, Ni	8.0 %	8.0 %	
Nitrogen, N	0.0050 %	0.0050 %	

Component Elements Properties	Metric	English	Comments
Silicon, Si	0.050 %	0.050 %	
Sulfur, S	0.0040 %	0.0040 %	

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