

ATI Allvac® Vasco® 316-L Specialty Steel, Heat Treatment: 1038°C (1900°F) Anneal

Category : Metal , Ferrous Metal , Stainless Steel , T 300 Series Stainless Steel

Material Notes:

Data provided by Allvac.Applications: Jet engine components, exhaust manifold heat exchangers, chemical process equipment, semiconductor systems.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-Vasco-316-L-Specialty-Steel-Heat-Treatment-1038C-1900F-Anneal.php

Physical Properties	Metric	English	Comments
Density	8.03 g/cc	0.290 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	369	369	Estimated from Rockwell C value for Brinell test with 3000 kg load/10 mm diameter ball
Hardness, Knoop	403	403	Estimated from Rockwell C value.
Hardness, Rockwell C	40	40	
Hardness, Vickers	386	386	Estimated from Rockwell C value.
Tensile Strength, Ultimate	724 MPa	105000 psi	
Tensile Strength, Yield	621 MPa @Strain 0.200 %	90100 psi @Strain 0.200 %	
Elongation at Break	35 %	35 %	
Reduction of Area	75 %	75 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.015 %	0.015 %	
Chromium, Cr	17 %	17 %	
Iron, Fe	67 %	67 %	as balance
Manganese, Mn	1.0 %	1.0 %	
Molybdenum, Mo	2.5 %	2.5 %	
Nickel, Ni	12 %	12 %	
Phosphorous, P	0.023 %	0.023 %	

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

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