

ATI Allvac® Vasco® 4340 Specialty Steel, Heat Treatment: 899°C (1650°F) Q+T

Category : Metal , Ferrous Metal , Alloy Steel

Material Notes:

Data provided by Allvac.Applications: Rocket motor cases, ordnance hardware, aircraft structural components, transmission gears, components, fasteners.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-Vasco-4340-Specialty-Steel-Heat-Treatment-899C-1650F-QT.php

Physical Properties	Metric	English	Comments
Density	7.83 g/cc	0.283 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	422	422	Estimated from Rockwell C value for Brinell test with 3000 kg load/10 mm diameter ball
Hardness, Knoop	463	463	Estimated from Rockwell C value.
Hardness, Rockwell C	45	45	
Hardness, Vickers	442	442	Estimated from Rockwell C value.
Tensile Strength, Ultimate	1724 MPa	250000 psi	
Tensile Strength, Yield	1517 MPa @Strain 0.200 %	220000 psi @Strain 0.200 %	
Elongation at Break	8.0 %	8.0 %	
Reduction of Area	18 %	18 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.41 %	0.41 %	
Chromium, Cr	0.80 %	0.80 %	
Iron, Fe	96 %	96 %	as balance
Manganese, Mn	0.70 %	0.70 %	
Molybdenum, Mo	0.25 %	0.25 %	
Nickel, Ni	1.9 %	1.9 %	
Phosphorous, P	0.018 %	0.018 %	
Silicon, Si	0.23 %	0.23 %	

Component Elements Properties	Metric	English	Comments
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