

ATI Allvac® Vasco® D6AC Specialty Steel, Heat Treatment: 913°C (1675°F) Q+T

Category : Metal , Ferrous Metal

Material Notes:

Data provided by Allvac.Applications: High performance aircraft structural parts.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-Vasco-D6AC-Specialty-Steel-Heat-Treatment-913C-1675F-QT.php

Physical Properties	Metric	English	Comments
Density	7.78 g/cc	0.281 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	1483 MPa	215100 psi	
Tensile Strength, Yield	1379 MPa @Strain 0.200 %	200000 psi @Strain 0.200 %	
Elongation at Break	12 %	12 %	
Reduction of Area	40 %	40 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.48 %	0.48 %	
Chromium, Cr	1.1 %	1.1 %	
Iron, Fe	96 %	96 %	as balance
Manganese, Mn	0.80 %	0.80 %	
Molybdenum, Mo	1.0 %	1.0 %	
Nickel, Ni	0.60 %	0.60 %	
Phosphorous, P	0.0050 %	0.0050 %	
Silicon, Si	0.23 %	0.23 %	

Component Elements Properties	Metric	English	Comments
Vanadium, V	0.12 %	0.12 %	

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