

ATI Allvac® VascoMax® C-250 Specialty Steel, Heat Treatment: 927°C (1700°F) + Age

Category : Metal , Ferrous Metal , Maraging Steel

Material Notes:

Data provided by Allvac.Applications: Missile components, tooling and other applications requiring good toughness with high strength. Jet engine shafts.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-VascoMax-C-250-Specialty-Steel-Heat-Treatment-927C-1700F-Age.php

Physical Properties	Metric	English	Comments
Density	8.00 g/cc	0.289 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	459	459	Estimated from Rockwell C value for Brinell test with 3000 kg load/10 mm diameter ball
Hardness, Knoop	504	504	Estimated from Rockwell C value.
Hardness, Rockwell C	48	48	
Hardness, Vickers	482	482	Estimated from Rockwell C value.
Tensile Strength, Ultimate	1759 MPa	255100 psi	
Tensile Strength, Yield	1690 MPa @Strain 0.200 %	245000 psi @Strain 0.200 %	
Elongation at Break	12 %	12 %	
Reduction of Area	50 %	50 %	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	0.10 %	0.10 %	
Carbon, C	0.020 %	0.020 %	
Cobalt, Co	7.8 %	7.8 %	
Iron, Fe	69 %	69 %	as balance
Manganese, Mn	0.050 %	0.050 %	
Molybdenum, Mo	4.8 %	4.8 %	
Nickel, Ni	18 %	18 %	

Component Elements Properties	Metric	English	Comments
Silicon, Si	0.050 %	0.050 %	
Sulfur, S	0.0050 %	0.0050 %	
Titanium, Ti	0.40 %	0.40 %	

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