

ATI Allvac® VascoMax® C-350 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. Spring wire for valve springs in high-performance internal combustion engines.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-VascoMax-C-350-Specialty-Steel-Heat-Treatment-927C-1700F-Age.php

Physical Properties	Metric	English	Comments
Density	8.08 g/cc	0.292 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	529	529	Estimated from Rockwell C value for Brinell test with 3000 kg load/10 mm diameter ball
Hardness, Knoop	585	585	Estimated from Rockwell C value.
Hardness, Rockwell C	53	53	
Hardness, Vickers	559	559	Estimated from Rockwell C value.
Tensile Strength, Ultimate	2310 MPa	335000 psi	
Tensile Strength, Yield	2242 MPa @Strain 0.200 %	325200 psi @Strain 0.200 %	
Elongation at Break	6.0 %	6.0 %	
Reduction of Area	25 %	25 %	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	0.10 %	0.10 %	
Carbon, C	0.020 %	0.020 %	
Cobalt, Co	12 %	12 %	
Iron, Fe	63 %	63 %	as balance
Manganese, Mn	0.050 %	0.050 %	
Molybdenum, Mo	4.8 %	4.8 %	
Nickel, Ni	18.5 %	18.5 %	

Component Elements Properties	Metric	English	Comments
Silicon, Si	0.050 %	0.050 %	
Sulfur, S	0.0050 %	0.0050 %	
Titanium, Ti	1.4 %	1.4 %	

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