

ATI Allvac® Vasco® Greek Ascoloy Specialty Steel, Heat Treatment: 871°C (1600°F) + Age

Category : Metal , Ferrous Metal , Stainless Steel , T 400 Series Stainless Steel

Material Notes:

Data provided by Allvac.Applications: Compressor blades, vanes, disks, shafts, wheels, fasteners, gas turbine and jet engine components.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-Vasco-Greek-Ascoloy-Specialty-Steel-Heat-Treatment-871C-1600F-Age.php

Physical Properties	Metric	English	Comments
Density	7.86 g/cc	0.284 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	130	130	As reported by the manufacturer. Beyond normal Rockwell B hardness range.
Tensile Strength, Ultimate	1172 MPa	170000 psi	
Tensile Strength, Yield	1034 MPa @Strain 0.200 %	150000 psi @Strain 0.200 %	
Elongation at Break	10 %	10 %	
Reduction of Area	32 %	32 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.18 %	0.18 %	
Chromium, Cr	13 %	13 %	
Iron, Fe	81 %	81 %	as balance
Manganese, Mn	0.25 %	0.25 %	
Nickel, Ni	2.0 %	2.0 %	
Phosphorous, P	0.020 %	0.020 %	
Silicon, Si	0.25 %	0.25 %	
Sulfur, S	0.015 %	0.015 %	
Tungsten, W	3.0 %	3.0 %	

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