

## ATI Allvac® Vasco® 9-4-30 Specialty Steel, Heat Treatment: 899°C (1650°F) + Age

Category : Metal , Ferrous Metal , Maraging Steel

### Material Notes:

Data provided by Allvac.Applications: Aircraft structural components, rocket motor cases, pressure vessels, armor applications.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ATI-Allvac-Vasco-9-4-30-Specialty-Steel-Heat-Treatment-899C-1650F-Age.php](http://www.lookpolymers.com/polymer_ATI-Allvac-Vasco-9-4-30-Specialty-Steel-Heat-Treatment-899C-1650F-Age.php)

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

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	389	389	Estimated from Rockwell C value for Brinell test with 3000 kg load/10 mm diameter ball
Hardness, Knoop	425	425	Estimated from Rockwell C value.
Hardness, Rockwell C	42	42	
Hardness, Vickers	407	407	Estimated from Rockwell C value.
Tensile Strength, Ultimate	1517 MPa	220000 psi	
Tensile Strength, Yield	1379 MPa @Strain 0.200 %	200000 psi @Strain 0.200 %	
Elongation at Break	14 %	14 %	
Reduction of Area	50 %	50 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.31 %	0.31 %	
Chromium, Cr	1.0 %	1.0 %	
Cobalt, Co	4.5 %	4.5 %	
Iron, Fe	85 %	85 %	as balance
Manganese, Mn	0.23 %	0.23 %	
Molybdenum, Mo	1.0 %	1.0 %	
Nickel, Ni	7.8 %	7.8 %	
Phosphorous, P	0.0050 %	0.0050 %	

Component Elements Properties	Metric	English	Comments
Sulfur, S	0.0050 %	0.0050 %	
Vanadium, V	0.090 %	0.090 %	

## Contact Songhan Plastic Technology Co.,Ltd.

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