

## ATI Allvac® Vasco® 450 Specialty Steel, Heat Treatment: 1038°C (1900°F) + Age

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

### Material Notes:

Data provided by Allvac.Applications: Land-based turbine blades and buckets.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ATI-Allvac-Vasco-450-Specialty-Steel-Heat-Treatment-1038C-1900F-Age.php](http://www.lookpolymers.com/polymer_ATI-Allvac-Vasco-450-Specialty-Steel-Heat-Treatment-1038C-1900F-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	318	318	Estimated from Rockwell C value for Brinell test with 3000 kg load/10 mm diameter ball
Hardness, Knoop	346	346	Estimated from Rockwell C value.
Hardness, Rockwell C	34	34	
Hardness, Vickers	333	333	Estimated from Rockwell C value.
Tensile Strength, Ultimate	1035 MPa	150100 psi	
Tensile Strength, Yield	966 MPa @Strain 0.200 %	140000 psi @Strain 0.200 %	
Elongation at Break	18 %	18 %	
Reduction of Area	65 %	65 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.025 %	0.025 %	
Chromium, Cr	15 %	15 %	
Copper, Cu	1.5 %	1.5 %	
Iron, Fe	76 %	76 %	as balance
Manganese, Mn	0.50 %	0.50 %	
Molybdenum, Mo	0.75 %	0.75 %	
Nickel, Ni	6.0 %	6.0 %	
Phosphorous, P	0.015 %	0.015 %	

Component Elements Properties	Metric	English	Comments
Sulfur, S	0.015 %	0.015 %	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China