

ATI Allvac® Vasco® 9310 Specialty Steel, Heat Treatment: 899°C (1650°F) Normalization

Category : Metal , Ferrous Metal , Alloy Steel

Material Notes:

Data provided by Allvac.Applications: High performance helicopter transmission gears, components.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-Vasco-9310-Specialty-Steel-Heat-Treatment-899C-1650F-Normalization.php

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

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	334	334	Estimated from Rockwell C value for Brinell test with 3000 kg load/10 mm diameter ball
Hardness, Knoop	363	363	Estimated from Rockwell C value.
Hardness, Rockwell C	36	36	
Hardness, Vickers	349	349	Estimated from Rockwell C value.
Tensile Strength, Ultimate	966 MPa	140000 psi	
Tensile Strength, Yield	897 MPa @Strain 0.200 %	130000 psi @Strain 0.200 %	
Elongation at Break	15 %	15 %	
Reduction of Area	40 %	40 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.11 %	0.11 %	
Chromium, Cr	1.2 %	1.2 %	
Iron, Fe	94 %	94 %	as balance
Manganese, Mn	0.55 %	0.55 %	
Molybdenum, Mo	0.12 %	0.12 %	
Nickel, Ni	3.3 %	3.3 %	
Phosphorous, P	0.013 %	0.013 %	
Silicon, Si	0.25 %	0.25 %	

Component Elements Properties	Metric	English	Comments
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Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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