

ATI Allvac® Vasco® 455 Specialty Steel, Heat Treatment: 829°C (1525°F) + Age

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

Material Notes:

Data provided by Allvac.Applications: High-strength aircraft components including fasteners, bolts, pins, pressure vessels, gears, shafts.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-Vasco-455-Specialty-Steel-Heat-Treatment-829C-1525F-Age.php

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

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	1413 MPa @Strain 0.200 %	204900 psi @Strain 0.200 %	
Elongation at Break	>= 10 %	>= 10 %	
Reduction of Area	>= 40 %	>= 40 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.030 %	0.030 %	
Chromium, Cr	11.8 %	11.8 %	
Copper, Cu	2.0 %	2.0 %	
Iron, Fe	75 %	75 %	as balance
Manganese, Mn	0.25 %	0.25 %	
Molybdenum, Mo	0.25 %	0.25 %	
Nickel, Ni	8.5 %	8.5 %	
Niobium, Nb (Columbium, Cb)	0.30 %	0.30 %	

Phosphorous P Component Elements Properties	0.020 % Metric	0.020 % English	Comments
Silicon, Si	0.25 %	0.25 %	
Sulfur, S	0.015 %	0.015 %	
Titanium, Ti	1.1 %	1.1 %	

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