

ATI Allvac® Nickelvac® TJA-1537™ UNS R31537 & UNS R31538 Nickel Superalloy

Category : Metal , Nonferrous Metal , Cobalt Alloy , Superalloy

Material Notes:

Cobalt-base alloy for machined and forged medical and surgical devices requiring high fatigue strength; total joint replacement. Property values are for samples in the metallurgical condition: Warm worked. Information provided by Allvac, An Allegheny Teledyne Company.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-Nickelvac-TJA-1537-UNS-R31537-UNS-R31538-Nickel-Superalloy.php

Physical Properties	Metric	English	Comments
Density	8.30 g/cc	0.300 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	41	41	
Tensile Strength, Ultimate	1311 MPa	190100 psi	
Tensile Strength, Yield	966 MPa	140000 psi	0.2% Offset
Elongation at Break	20 %	20 %	
Reduction of Area	20 %	20 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.060 %	0.060 %	
Chromium, Cr	28 %	28 %	
Cobalt, Co	64 %	64 %	as balance
Iron, Fe	0.25 %	0.25 %	
Manganese, Mn	0.50 %	0.50 %	
Molybdenum, Mo	6.0 %	6.0 %	
Nickel, Ni	0.20 %	0.20 %	
Nitrogen, N	0.20 %	0.20 %	
Silicon, Si	0.50 %	0.50 %	

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