

ATI Allvac® Nickelvac® XM-19 UNS S20910 Specialty Steel

Category : Metal , Ferrous Metal , Stainless Steel

Material Notes:

Uses: Chemical processing equipment, high-strength pump shafts, surgical implants, intermedullary nails, plates, screws, wires. Property values are for samples in the metallurgical condition: 1900°F 1 hr. + water quench. Information provided by Allvac, An Allegheny Teledyne Company.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-Nickelvac-XM-19-UNS-S20910-Specialty-Steel.php

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

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	90	90	
Tensile Strength, Ultimate	759 MPa	110000 psi	
Tensile Strength, Yield	379 MPa @Strain 0.200 %	55000 psi @Strain 0.200 %	
Elongation at Break	50 %	50 %	
Reduction of Area	75 %	75 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.030 %	0.030 %	
Chromium, Cr	22 %	22 %	
Iron, Fe	57 %	57 %	as balance
Manganese, Mn	5.0 %	5.0 %	
Molybdenum, Mo	2.3 %	2.3 %	
Nickel, Ni	12 %	12 %	
Niobium, Nb (Columbium, Cb)	0.20 %	0.20 %	
Nitrogen, N	0.30 %	0.30 %	
Phosphorous, P	0.020 %	0.020 %	
Silicon, Si	0.50 %	0.50 %	
Sulfur, S	0.015 %	0.015 %	

Component Elements Properties	Metric	English	Comments
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