

ATI Allvac® Nickelvacc® 23 UNS N08020 Specialty Steel

Category : Metal , Ferrous Metal , Stainless Steel

Material Notes:

Uses: Pressure vessels, pumps, valves, HX tubing and piping for the CPI and HPI. Trays, flanges, fasteners, wire, screens. Property values are for samples in the metallurgical condition: 1700°F anneal. Information provided by Allvac, An Allegheny Teledyne Company.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-Nickelvacc-23-UNS-N08020-Specialty-Steel.php

Physical Properties	Metric	English	Comments
Density	8.05 g/cc	0.291 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	80	80	
Tensile Strength, Ultimate	586 MPa	85000 psi	
Tensile Strength, Yield	310 MPa @Strain 0.200 %	45000 psi @Strain 0.200 %	
Elongation at Break	40 %	40 %	
Reduction of Area	65 %	65 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.030 %	0.030 %	
Chromium, Cr	20 %	20 %	
Copper, Cu	3.5 %	3.5 %	
Iron, Fe	40 %	40 %	as balance
Manganese, Mn	1.0 %	1.0 %	
Nickel, Ni	35 %	35 %	
Niobium, Nb (Columbium, Cb)	0.24 %	0.24 %	
Phosphorous, P	0.020 %	0.020 %	
Silicon, Si	0.50 %	0.50 %	
Sulfur, S	0.015 %	0.015 %	

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