

ATI Allvac® Nickelvac® X- 751 UNS N07751 Nickel Superalloy

Category : Metal , Nonferrous Metal , Nickel Alloy , Superalloy

Material Notes:

Uses: Components for gas turbine engines, exhaust valve stock for internal combustion engines. Property values are for samples in the metallurgical condition: 1800°F age. Information provided by Allvac, An Allegheny Teledyne Company.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-Nickelvac-X-751-UNS-N07751-Nickel-Superalloy.php

Physical Properties	Metric	English	Comments
Density	8.24 g/cc	0.298 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	35	35	
Tensile Strength, Ultimate	1310 MPa	190000 psi	
Tensile Strength, Yield	965 MPa @Strain 0.200 %	140000 psi @Strain 0.200 %	
Elongation at Break	22 %	22 %	
Reduction of Area	20 %	20 %	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	1.2 %	1.2 %	
Carbon, C	0.050 %	0.050 %	
Chromium, Cr	15.5 %	15.5 %	
Copper, Cu	0.20 %	0.20 %	
Iron, Fe	7.0 %	7.0 %	
Manganese, Mn	0.50 %	0.50 %	
Nickel, Ni	70 %	70 %	
Niobium, Nb (Columbium, Cb)	1.1 %	1.1 %	
Silicon, Si	0.20 %	0.20 %	
Sulfur, S	0.0050 %	0.0050 %	
Titanium, Ti	2.3 %	2.3 %	

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