

ATI Allvac® Nickelvacc® X-750 Nickel Superalloy, Heat Treatment: 1149°C (2100°F) + Age

Category : Metal , Nonferrous Metal , Nickel Alloy , Superalloy

Material Notes:

Data provided by Allvac.Applications: Turbine, engine components. Blades, vanes, fasteners, springs, bellows. Extrusion dies, nuclear, heat treating, forming tools.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-Nickelvacc-X-750-Nickel-Superalloy-Heat-Treatment-1149C-2100F-Age.php

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

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	290	290	Estimated from Rockwell C value for Brinell test with 3000 kg load/10 mm diameter ball
Hardness, Knoop	315	315	Estimated from Rockwell C value.
Hardness, Rockwell C	30	30	
Hardness, Vickers	304	304	Estimated from Rockwell C value.
Tensile Strength, Ultimate	1000 MPa	145000 psi	
Tensile Strength, Yield	655 MPa @Strain 0.200 %	95000 psi @Strain 0.200 %	
Elongation at Break	20 %	20 %	
Reduction of Area	20 %	20 %	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	0.70 %	0.70 %	
Carbon, C	0.040 %	0.040 %	
Chromium, Cr	15.5 %	15.5 %	
Iron, Fe	7.0 %	7.0 %	
Nickel, Ni	>= 70 %	>= 70 %	as balance
Niobium, Nb (Columbium, Cb)	0.95 %	0.95 %	
Titanium, Ti	2.5 %	2.5 %	

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