

ATI Allvac® 706 Nickel Superalloy, Heat Treatment: 954°C (1750°F) + Age

Category : Metal , Nonferrous Metal , Nickel Alloy , Superalloy

Material Notes:

Data provided by Allvac.Applications: Land based turbine wheels and spacers. Jet engine components.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-706-Nickel-Superalloy-Heat-Treatment-954C-1750F-Age.php

Physical Properties	Metric	English	Comments
Density	8.08 g/cc	0.292 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	369	369	Estimated from Rockwell C value for Brinell test with 3000 kg load/10 mm diameter ball
Hardness, Knoop	403	403	Estimated from Rockwell C value.
Hardness, Rockwell C	40	40	
Hardness, Vickers	386	386	Estimated from Rockwell C value.
Tensile Strength, Ultimate	1241 MPa	180000 psi	
Tensile Strength, Yield	1035 MPa @Strain 0.200 %	150100 psi @Strain 0.200 %	
Elongation at Break	15 %	15 %	
Reduction of Area	25 %	25 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.030 %	0.030 %	
Chromium, Cr	16 %	16 %	
Iron, Fe	37 %	37 %	as balance
Nickel, Ni	42 %	42 %	
Niobium, Nb (Columbium, Cb)	2.9 %	2.9 %	
Titanium, Ti	1.8 %	1.8 %	

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