

## ATI Allvac® Nickelvac® C-263 Nickel Superalloy, Heat Treatment: 927°C (1700°F) Anneal

Category : Metal , Nonferrous Metal , Nickel Alloy , Superalloy

### Material Notes:

Data provided by Allvac.Applications: Ring components in jet engines.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ATI-Allvac-Nickelvac-C-263-Nickel-Superalloy-Heat-Treatment-927C-1700F-Anneal.php](http://www.lookpolymers.com/polymer_ATI-Allvac-Nickelvac-C-263-Nickel-Superalloy-Heat-Treatment-927C-1700F-Anneal.php)

Physical Properties	Metric	English	Comments
Density	8.35 g/cc	0.302 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	278	278	Estimated from Rockwell C value for Brinell test with 3000 kg load/10 mm diameter ball
Hardness, Knoop	301	301	Estimated from Rockwell C value.
Hardness, Rockwell C	28	28	
Hardness, Vickers	292	292	Estimated from Rockwell C value.
Tensile Strength, Ultimate	931 MPa	135000 psi	
Tensile Strength, Yield	517 MPa @Strain 0.200 %	75000 psi @Strain 0.200 %	
Elongation at Break	30 %	30 %	
Reduction of Area	35 %	35 %	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	0.45 %	0.45 %	
Carbon, C	0.060 %	0.060 %	
Chromium, Cr	20 %	20 %	
Cobalt, Co	20 %	20 %	
Molybdenum, Mo	5.85 %	5.85 %	
Nickel, Ni	51 %	51 %	as balance
Titanium, Ti	2.15 %	2.15 %	

## **Contact Songhan Plastic Technology Co.,Ltd.**

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