

## ATI Allvac® Nickelvac® 690 UNS N06690 Nickel Superalloy

Category : Metal , Nonferrous Metal , Nickel Alloy , Superalloy

**Material Notes:**

Uses: Nuclear, mineral acids manufacturing and processing facilities, high-temperature gas-phase reactors. Property values are for samples in the metallurgical condition: 1825°F anneal. Information provided by Allvac, An Allegheny Teledyne Company.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ATI-Allvac-Nickelvac-690-UNS-N06690-Nickel-Superalloy.php](http://www.lookpolymers.com/polymer_ATI-Allvac-Nickelvac-690-UNS-N06690-Nickel-Superalloy.php)

Physical Properties	Metric	English	Comments
Density	8.13 g/cc	0.294 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	88	88	
Tensile Strength, Ultimate	655 MPa	95000 psi	
Tensile Strength, Yield	241 MPa @Strain 0.200 %	35000 psi @Strain 0.200 %	
Elongation at Break	45 %	45 %	
Reduction of Area	65 %	65 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.25 %	0.25 %	
Chromium, Cr	29 %	29 %	
Copper, Cu	0.20 %	0.20 %	
Iron, Fe	9.0 %	9.0 %	
Manganese, Mn	0.20 %	0.20 %	
Nickel, Ni	58 %	58 %	
Silicon, Si	0.20 %	0.20 %	
Sulfur, S	0.00070 %	0.00070 %	

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