

## Universal Wire Works 901 (AMS 5660) Nickel Alloy Filler Metal

Category : Metal , Nonferrous Metal , Nickel Alloy , Superalloy

**Material Notes:**

Alloy 901 is a corrosion and heat resistant nickel-base alloy designed for gas tungsten arc and gas metal arc welding. Alloy 901 is used primarily for parts, such as turbine rotors, shafts and buckets or blades requiring high strength up to 1400°F (760°C) and oxidation resistance up to 1600°F (871°C). Information provided by Universal Wire Works for their line of welding wire and filler metal.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Universal-Wire-Works-901-AMS-5660-Nickel-Alloy-Filler-Metal.php](http://www.lookpolymers.com/polymer_Universal-Wire-Works-901-AMS-5660-Nickel-Alloy-Filler-Metal.php)

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	>= 1030 MPa	>= 150000 psi	
Tensile Strength, Yield	>= 689 MPa @Strain 0.200 %	>= 100000 psi @Strain 0.200 %	
Elongation at Break	>= 12 %	>= 12 %	4D

Component Elements Properties	Metric	English	Comments
Aluminum, Al	<= 0.35 %	<= 0.35 %	
Boron, B	<= 0.020 %	<= 0.020 %	
Carbon, C	<= 0.10 %	<= 0.10 %	
Chromium, Cr	13 %	13 %	
Copper, Cu	<= 0.50 %	<= 0.50 %	
Iron, Fe	>= 32.4 %	>= 32.4 %	As Remainder
Manganese, Mn	<= 1.0 %	<= 1.0 %	
Molybdenum, Mo	6.0 %	6.0 %	
Nickel, Ni	43 %	43 %	
Phosphorous, P	<= 0.030 %	<= 0.030 %	
Silicon, Si	<= 0.60 %	<= 0.60 %	
Sulfur, S	<= 0.030 %	<= 0.030 %	
Titanium, Ti	3.0 %	3.0 %	

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