

## Universal Wire Works 82 Nickel Alloy Welding Wire

Category : Metal , Nonferrous Metal , Nickel Alloy

**Material Notes:**

Alloy 82 is used for TIG, MIG and submerged-arc welding of Inconel type alloys 600 and 601, Incoloy type alloy 800 and welding the clad side of steel clad with nickel chromium alloy. Dissimilar metals welding applications include: joining stainless steels to carbon steel, Nickel 200, Monel type 400; Inconel and Incoloy type alloys to stainless steels, carbon steel, Nickel 200 and Monel type 400. 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-82-Nickel-Alloy-Welding-Wire.php](http://www.lookpolymers.com/polymer_Universal-Wire-Works-82-Nickel-Alloy-Welding-Wire.php)

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	552 MPa	80000 psi	
Elongation at Break	30 %	30 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.10 %	<= 0.10 %	
Chromium, Cr	18 - 22 %	18 - 22 %	
Cobalt, Co	<= 0.12 %	<= 0.12 %	
Copper, Cu	<= 0.50 %	<= 0.50 %	
Iron, Fe	<= 3.0 %	<= 3.0 %	
Manganese, Mn	2.5 - 3.5 %	2.5 - 3.5 %	
Molybdenum, Mo	0.50 %	0.50 %	
Nickel, Ni	>= 67 %	>= 67 %	
Niobium, Nb (Columbium, Cb)	2.0 - 3.0 %	2.0 - 3.0 %	
Other	<= 0.50 %	<= 0.50 %	
Phosphorous, P	<= 0.030 %	<= 0.030 %	
Sulfur, S	<= 0.015 %	<= 0.015 %	
Tantalum, Ta	<= 0.30 %	<= 0.30 %	
Titanium, Ti	<= 0.75 %	<= 0.75 %	

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