

## Universal Wire Works B2 Nickel Alloy Welding Wire

Category : Metal , Nonferrous Metal , Nickel Alloy

**Material Notes:**

Alloy B2 is a nickel molybdenum alloy designed for severe corrosion applications in hydrochloric acid at all concentrations and temperatures including the boiling point. This alloy is also resistant to hydrogen chloride gas, sulfuric, acetic, and phosphoric acids. This alloy resists the formation of grain-boundary carbide precipitates in the weld heat affected zone, thus making it suitable for most chemical process applications in the as welded condition. Alloy B2 also has excellent resistance to pitting and stress corrosion cracking. 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-B2-Nickel-Alloy-Welding-Wire.php](http://www.lookpolymers.com/polymer_Universal-Wire-Works-B2-Nickel-Alloy-Welding-Wire.php)

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	758 MPa	110000 psi	
Elongation at Break	40 %	40 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.020 %	<= 0.020 %	
Chromium, Cr	<= 1.0 %	<= 1.0 %	
Cobalt, Co	<= 1.0 %	<= 1.0 %	
Iron, Fe	<= 2.0 %	<= 2.0 %	
Manganese, Mn	<= 1.0 %	<= 1.0 %	
Molybdenum, Mo	26 - 30 %	26 - 30 %	
Nickel, Ni	>= 64.8 %	>= 64.8 %	As Remainder
Phosphorous, P	<= 0.040 %	<= 0.040 %	
Silicon, Si	<= 0.10 %	<= 0.10 %	
Sulfur, S	<= 0.030 %	<= 0.030 %	

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