

## Universal Wire Works X Nickel Alloy Welding Wire

Category : Metal , Nonferrous Metal , Nickel Alloy

**Material Notes:**

Universal Alloy X is a nickel chromium molybdenum alloy that possesses exceptional strength and oxidation resistance up to 2200 degrees F. Alloy X has been found to be highly resistant to stress-corrosion cracking in petrochemical applications. This alloy is recommended especially for use in furnace applications because it has unusual resistance to oxidizing, reducing and neutral atmospheres. Alloy X is often used for welding on jet engine parts such as jet engine tailpipes, afterburner components, cabin heaters and combustion chamber liners. 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-X-Nickel-Alloy-Welding-Wire.php](http://www.lookpolymers.com/polymer_Universal-Wire-Works-X-Nickel-Alloy-Welding-Wire.php)

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

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	1200 °C	2200 °F	

Component Elements Properties	Metric	English	Comments
Boron, B	<= 0.010 %	<= 0.010 %	
Carbon, C	0.050 - 0.15 %	0.050 - 0.15 %	
Chromium, Cr	20.5 - 23 %	20.5 - 23 %	
Cobalt, Co	0.50 - 2.5 %	0.50 - 2.5 %	
Iron, Fe	17 - 20 %	17 - 20 %	
Manganese, Mn	<= 1.0 %	<= 1.0 %	
Molybdenum, Mo	8.0 - 10 %	8.0 - 10 %	
Nickel, Ni	>= 41.3 %	>= 41.3 %	As Remainder
Phosphorous, P	<= 0.040 %	<= 0.040 %	
Silicon, Si	<= 1.0 %	<= 1.0 %	
Sulfur, S	<= 0.030 %	<= 0.030 %	
Tungsten, W	0.20 - 1.0 %	0.20 - 1.0 %	

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

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