

Universal Wire Works 622 Nickel Alloy Welding Wire

Category : Metal , Nonferrous Metal , Nickel Alloy

Material Notes:

Alloy 622 is an alloy of nickel with chromium, molybdenum, tungsten as principal alloying elements. It is used to weld alloys of similar composition as well as dissimilar joints between nickel-chromium-molybdenum alloys and stainless steels, low alloy steels, and carbon steels. Alloy 622 is also used as a cladding overlay as well as flame spray applications. Alloy 622 offers excellent corrosion resistance in oxidizing as well as reducing media in a wide variety of chemical process environments. Alloy 622 exhibits superior resistance to stress corrosion, cracking, pitting, and crevice corrosion. 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-622-Nickel-Alloy-Welding-Wire.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	793 MPa	115000 psi	
Tensile Strength, Yield	565 MPa	82000 psi	
Elongation at Break	38 %	38 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.0080 %	0.0080 %	
Chromium, Cr	21.5 %	21.5 %	
Iron, Fe	3.1 %	3.1 %	
Manganese, Mn	0.020 %	0.020 %	
Molybdenum, Mo	13.5 %	13.5 %	
Nickel, Ni	58.3 %	58.3 %	As Remainder
Phosphorous, P	0.0050 %	0.0050 %	
Silicon, Si	0.040 %	0.040 %	
Sulfur, S	0.0020 %	0.0020 %	
Tungsten, W	3.5 %	3.5 %	

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