

Universal Wire Works C-276 Nickel Alloy Welding Wire

Category : Metal , Nonferrous Metal , Nickel Alloy

Material Notes:

Alloy C-276 is a low carbon, nickel base alloy containing significant amounts of molybdenum and chromium. Alloy C-276 is one of the most universally corrosion resistant alloys available. This alloy resists the formation of grain-boundary precipitates in the weld heat affected zone, thus making it suitable for most chemical process applications in the as welded condition. Alloy C-276 has exceptional resistance to strong oxidizing agents such as ferric and cupric chlorides, hot contaminated mineral acids, acetic anhydride, and sea water and brine solutions. Alloy C-276 is known to resist the corrosive effects of wet chlorine gas, hypochlorite, and chlorine dioxide solutions. Alloy C-276 is resistant to oxidizing and reducing the atmospheres up to 1900 degrees F and is particularly useful where parts are either highly stressed, or subject to repeated thermal shock at temperatures from 1600 to 1800 degrees F, which makes this alloy useful for hot metal handling equipment and forging hammers and rings. 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-C-276-Nickel-Alloy-Welding-Wire.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	689 MPa	100000 psi	
Elongation at Break	40 %	40 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.020 %	<= 0.020 %	
Chromium, Cr	14.5 - 16.5 %	14.5 - 16.5 %	
Cobalt, Co	<= 2.5 %	<= 2.5 %	
Iron, Fe	4.0 - 7.0 %	4.0 - 7.0 %	
Manganese, Mn	<= 1.0 %	<= 1.0 %	
Molybdenum, Mo	15 - 17 %	15 - 17 %	
Nickel, Ni	>= 65 %	>= 65 %	As Remainder
Phosphorous, P	<= 0.040 %	<= 0.040 %	
Silicon, Si	<= 0.080 %	<= 0.080 %	
Sulfur, S	<= 0.030 %	<= 0.030 %	
Tungsten, W	3.0 - 4.5 %	3.0 - 4.5 %	
Vanadium, V	<= 0.35 %	<= 0.35 %	

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