

Universal Wire Works 17-4 (AMS 5825) Filler Metal

Category : Metal , Ferrous Metal , Stainless Steel , Precipitation Hardening Stainless

Material Notes:

Universal 630 (17Cr-4Ni) is a martensitic precipitation - age hardening stainless steel alloy. Alloy 630 can be welded with all welding processes without preheat; however, to obtain weld metal properties comparable to those of the parent metal a suitable postweld heat treatment is required. 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-17-4-AMS-5825-Filler-Metal.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	689 - 1240 MPa	100000 - 180000 psi	depending on condition of material after heat treatment

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.050 %	<= 0.050 %	
Chromium, Cr	16.5 %	16.5 %	
Copper, Cu	3.6 %	3.6 %	
Iron, Fe	>= 73.3 %	>= 73.3 %	As Remainder
Manganese, Mn	<= 0.75 %	<= 0.75 %	
Nb + Ta	0.22 %	0.22 %	
Nickel, Ni	4.8 %	4.8 %	
Phosphorous, P	<= 0.025 %	<= 0.025 %	
Silicon, Si	<= 0.75 %	<= 0.75 %	
Sulfur, S	<= 0.025 %	<= 0.025 %	

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