

## Universal Wire Works 316 Stainless Steel (AMS 5692) Filler Metal

Category : Metal , Ferrous Metal , Stainless Steel

**Material Notes:**

Universal 316 is a chromium-nickel alloy with large amounts of molybdenum added for superior corrosion resistance and strength. The corrosion resistance is superior to types 302 and 304 making 316 the choice for those applications requiring superior creep strength and corrosion resistance. 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-316-Stainless-Steel-AMS-5692-Filler-Metal.php](http://www.lookpolymers.com/polymer_Universal-Wire-Works-316-Stainless-Steel-AMS-5692-Filler-Metal.php)

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	607 MPa	88000 psi	
Tensile Strength, Yield	414 MPa @Strain 0.200 %	60000 psi @Strain 0.200 %	
Elongation at Break	40 %	40 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.060 %	0.060 %	
Chromium, Cr	<= 18 %	<= 18 %	
Copper, Cu	<= 0.75 %	<= 0.75 %	
Iron, Fe	>= 64.3 %	>= 64.3 %	As Remainder
Manganese, Mn	1.8 %	1.8 %	
Molybdenum, Mo	2.2 %	2.2 %	
Nickel, Ni	12.5 %	12.5 %	
Phosphorous, P	0.020 %	0.020 %	
Silicon, Si	0.40 %	0.40 %	
Sulfur, S	0.010 %	0.010 %	

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