

## Universal Wire Works Inconel 718 (AMS 5832) Filler Metal

Category : Metal , Nonferrous Metal , Nickel Alloy , Superalloy

**Material Notes:**

Inconel Filler Metal 718 is recommended for gas tungsten arc and gas metal arc welding of alloy 718, 706 and X-750. This double gamma prime alloy has excellent strength, good ductility up to 1300°F, good formability and weldability. It also possesses excellent cryogenic properties which accounts for its varied applications. Uses for this alloy are mainly welding aircraft high strength components and liquid rocket components involving cryogenic temperatures. 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-Inconel-718-AMS-5832-Filler-Metal.php](http://www.lookpolymers.com/polymer_Universal-Wire-Works-Inconel-718-AMS-5832-Filler-Metal.php)

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	1140 MPa	165000 psi	Age Hardened
Tensile Strength, Yield	414 MPa @Strain 0.200 %	60000 psi @Strain 0.200 %	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	0.50 %	0.50 %	
Boron, B	0.0040 %	0.0040 %	
Carbon, C	0.050 %	0.050 %	
Chromium, Cr	18 %	18 %	
Cobalt, Co	<= 1.0 %	<= 1.0 %	
Copper, Cu	<= 0.30 %	<= 0.30 %	
Iron, Fe	19 %	19 %	
Manganese, Mn	<= 0.35 %	<= 0.35 %	
Molybdenum, Mo	3.0 %	3.0 %	
Nb + Ta	<= 1.25 %	<= 1.25 %	
Nickel, Ni	53 %	53 %	
Other	<= 0.40 %	<= 0.40 %	
Titanium, Ti	0.90 %	0.90 %	

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