

## Universal Wire Works 6Al-4V (AMS 4954) Titanium Alloy Filler Metal

Category : Metal , Nonferrous Metal , Titanium Alloy , Alpha/Beta Titanium Alloy

**Material Notes:**

Universal 6Al-4V titanium alloy is often repaired with the gas tungsten arc or gas metal arc welding process, provided adequate inert gas shielding of the filler wire and deposited weld metal is provided. As with all titanium alloys the affinity of hot weld metal for oxygen, nitrogen and hydrogen is high. Properly shielded deposits are sound and ductile and perform well in airframe and turbine engine parts (blades, discs, wheels, spacer rings), ordinance equipment, pressure vessels and rocket motor cases. 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-6Al-4V-AMS-4954-Titanium-Alloy-Filler-Metal.php](http://www.lookpolymers.com/polymer_Universal-Wire-Works-6Al-4V-AMS-4954-Titanium-Alloy-Filler-Metal.php)

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	896 MPa	130000 psi	
Tensile Strength, Yield	827 MPa @Strain 0.200 %	120000 psi @Strain 0.200 %	
Elongation at Break	10 %	10 %	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	<= 6.75 %	<= 6.75 %	
Carbon, C	<= 0.050 %	<= 0.050 %	
Hydrogen, H	<= 0.015 %	<= 0.015 %	
Iron, Fe	<= 0.30 %	<= 0.30 %	
Nitrogen, N	<= 0.030 %	<= 0.030 %	
Other	<= 0.40 %	<= 0.40 %	
Oxygen, O	<= 0.18 %	<= 0.18 %	
Titanium, Ti	>= 87.775 %	>= 87.775 %	As Remainder
Vanadium, V	<= 4.5 %	<= 4.5 %	

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