

Universal Wire Works 5Al-2.5Sn (AMS 4953) Titanium Alloy Filler Metal

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

Material Notes:

Universal Ti 5Al-2.5Sn titanium alloy is easily joined with the gas tungsten arc, gas metal arc or resistance welding processes. 100% joint efficiency can be obtained provided proper shielding procedures are used. Alloy 4953 is often employed for applications where weldability and oxidation resistance is of major interest. Good high temperature strength and stability are trademarks of this alloy. 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-5Al-25Sn-AMS-4953-Titanium-Alloy-Filler-Metal.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	827 MPa	120000 psi	Annealed
Tensile Strength, Yield	793 MPa @Strain 0.200 %	115000 psi @Strain 0.200 %	Annealed
Elongation at Break	10 %	10 %	Annealed

Component Elements Properties	Metric	English	Comments
Aluminum, Al	<= 5.75 %	<= 5.75 %	
Carbon, C	<= 0.080 %	<= 0.080 %	
Hydrogen, H	<= 0.015 %	<= 0.015 %	
Iron, Fe	<= 0.50 %	<= 0.50 %	
Nitrogen, N	<= 0.050 %	<= 0.050 %	
Oxygen, O	<= 0.175 %	<= 0.175 %	
Tin, Sn	<= 3.0 %	<= 3.0 %	
Titanium, Ti	>= 90.43 %	>= 90.43 %	As Remainder

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