

Universal Wire Works 6Al-4V (ELI) (AMS 4956) Titanium Alloy Filler Metal

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

Material Notes:

Universal titanium alloy 6Al-4V (ELI) is similar to type 6Al-4V in chemical analysis with the exception of Extra Low Interstitial gases (ELI). By controlling these contaminating gases the fracture toughness is greatly increased. Alloy 4956 is used to weld liquid hydrogen tankage and airframe parts requiring a high fracture toughness. 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-ELI-AMS-4956-Titanium-Alloy-Filler-Metal.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	896 MPa	130000 psi	
	1500 MPa	218000 psi	
	@Temperature -196 °C	@Temperature -320 °F	
Tensile Strength, Yield	827 MPa	120000 psi	
	@Strain 0.200 %	@Strain 0.200 %	
	1390 MPa	202000 psi	
	@Strain 0.200 %, Temperature -196 °C	@Strain 0.200 %, Temperature -320 °F	
Elongation at Break	10 %	10 %	
	13.5 %	13.5 %	
	@Temperature -196 °C	@Temperature -320 °F	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	<= 6.75 %	<= 6.75 %	
Carbon, C	<= 0.030 %	<= 0.030 %	
Hydrogen, H	<= 0.0050 %	<= 0.0050 %	
Iron, Fe	<= 0.20 %	<= 0.20 %	
Manganese, Mn	<= 0.10 %	<= 0.10 %	
Nitrogen, N	<= 0.012 %	<= 0.012 %	
Other	<= 0.10 %	<= 0.10 %	
Oxygen, O	<= 0.080 %	<= 0.080 %	
Titanium, Ti	>= 88.273 %	>= 88.273 %	As Remainder

Component Elements Properties	Metric	English	Comments
Vanadium, V	10.43 %	10.43 %	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China