

Kobe Steel KS6-2-4-2 Alpha Titanium Alloy, AMS 4976, Solution treated and aged

Category : Metal , Nonferrous Metal , Titanium Alloy

Material Notes:

Nominal Composition: Ti-6 Al-2 Sn-4 Zr-2 Mo Applications: Jet engine parts, engine valves.Features:Heat resistant. Information provided by Kobe Steel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kobe-Steel-KS6-2-4-2-Alpha-Titanium-Alloy-AMS-4976-Solution-treated-and-aged.php

Physical Properties	Metric	English	Comments
Density	4.54 g/cc	0.164 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	>= 896 MPa	>= 130000 psi	
Tensile Strength, Yield	>= 827 MPa	>= 120000 psi	0.2% proof
Elongation at Break	>= 10 %	>= 10 %	
Reduction of Area	>= 25 %	>= 25 %	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	5.5 - 6.5 %	5.5 - 6.5 %	
Carbon, C	<= 0.050 %	<= 0.050 %	
Hydrogen, H	<= 0.015 %	<= 0.015 %	
Iron, Fe	<= 0.10 %	<= 0.10 %	
Molybdenum, Mo	1.8 - 2.2 %	1.8 - 2.2 %	
Nitrogen, N	<= 0.050 %	<= 0.050 %	
Oxygen, O	<= 0.15 %	<= 0.15 %	
Silicon, Si	0.060 - 0.10 %	0.060 - 0.10 %	
Tin, Sn	1.8 - 2.2 %	1.8 - 2.2 %	
Titanium, Ti	>= 84.235 %	>= 84.235 %	As Remainder
Zirconium, Zr	3.6 - 4.4 %	3.6 - 4.4 %	

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