

Kobe Steel KSTI-9 Alpha-Beta Titanium Alloy, ASTM Gr. 35, Annealed (coil, sheets)

Category : Metal , Nonferrous Metal , Titanium Alloy

Material Notes:

Nominal Composition: Ti-4.5 Al-2 Mo-1.6 V-0.5 Fe-0.3 Si-0.03 C Applications: Aircraft parts, connecting rods, valve spring retainers, structural parts, golf club heads. Features: High strength, excellent balance between strength and toughness. Information provided by Kobe Steel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kobe-Steel-KSTI-9-Alpha-Beta-Titanium-Alloy-ASTM-Gr-35-Annealed-coil-sheets.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	>= 895 MPa	>= 130000 psi	
Tensile Strength, Yield	>= 828 MPa	>= 120000 psi	0.2% proof
Elongation at Break	>= 5.0 %	>= 5.0 %	
Reduction of Area	>= 20 %	>= 20 %	
Bend Radius, Minimum	5.0 t	5.0 t	t ≤ 1.8 mm
	5.0 t	5.0 t	1.8 < t ≤ 4.75 mm

Component Elements Properties	Metric	English	Comments
Aluminum, Al	4.0 - 5.0 %	4.0 - 5.0 %	
Carbon, C	<= 0.080 %	<= 0.080 %	
Hydrogen, H	<= 0.015 %	<= 0.015 %	
Iron, Fe	0.20 - 0.80 %	0.20 - 0.80 %	
Molybdenum, Mo	1.5 - 2.5 %	1.5 - 2.5 %	
Nitrogen, N	<= 0.050 %	<= 0.050 %	
Oxygen, O	<= 0.25 %	<= 0.25 %	
Silicon, Si	0.20 - 0.40 %	0.20 - 0.40 %	
Titanium, Ti	>= 88.805 %	>= 88.805 %	As Remainder
Vanadium, V	1.1 - 2.1 %	1.1 - 2.1 %	

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