

Kobe Steel KS3-2.5 Alpha-Beta Titanium Alloy, ASTM Gr. 9, Annealed

Category : Metal , Nonferrous Metal , Titanium Alloy

Material Notes:

Nominal Composition: Ti-3 Al-2.5 V Applications: Exhaust systems, bicycle frames, eye glass frames.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-KS3-25-Alpha-Beta-Titanium-Alloy-ASTM-Gr-9-Annealed.php

Physical Properties	Metric	English	Comments
Density	4.48 g/cc	0.162 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	>= 620 MPa	>= 89900 psi	
Tensile Strength, Yield	>= 483 MPa	>= 70100 psi	0.2% proof
Elongation at Break	>= 15 %	>= 15 %	
Reduction of Area	>= 25 %	>= 25 %	
Bend Radius, Minimum	2.5 t	2.5 t	t ≤ 1.8 mm
	3.0 t	3.0 t	1.8 < t ≤ 4.75 mm

Component Elements Properties	Metric	English	Comments
Aluminum, Al	2.5 - 3.5 %	2.5 - 3.5 %	
Carbon, C	<= 0.080 %	<= 0.080 %	
Hydrogen, H	<= 0.015 %	<= 0.015 %	
Iron, Fe	<= 0.25 %	<= 0.25 %	
Nitrogen, N	<= 0.030 %	<= 0.030 %	
Oxygen, O	<= 0.15 %	<= 0.15 %	
Titanium, Ti	>= 92.975 %	>= 92.975 %	As Remainder
Vanadium, V	2.0 - 3.0 %	2.0 - 3.0 %	

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