

## Kobe Steel KS6-4 Alpha-Beta Titanium Alloy, ASTM Gr. 5, Annealed

Category : Metal , Nonferrous Metal , Titanium Alloy

**Material Notes:**

Nominal Composition: Ti-6 Al-4 V 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-KS6-4-Alpha-Beta-Titanium-Alloy-ASTM-Gr-5-Annealed.php](http://www.lookpolymers.com/polymer_Kobe-Steel-KS6-4-Alpha-Beta-Titanium-Alloy-ASTM-Gr-5-Annealed.php)

Physical Properties	Metric	English	Comments
Density	4.43 g/cc	0.160 lb/in <sup>3</sup>	

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	>= 10 %	>= 10 %	
Reduction of Area	>= 25 %	>= 25 %	
Bend Radius, Minimum	4.5 t	4.5 t	t &le; 1.8 mm
	5.0 t	5.0 t	1.8 &lt; t &le; 4.75 mm

Component Elements Properties	Metric	English	Comments
Aluminum, Al	5.5 - 6.75 %	5.5 - 6.75 %	
Carbon, C	<= 0.080 %	<= 0.080 %	
Hydrogen, H	<= 0.015 %	<= 0.015 %	
Iron, Fe	<= 0.40 %	<= 0.40 %	
Nitrogen, N	<= 0.050 %	<= 0.050 %	
Oxygen, O	<= 0.20 %	<= 0.20 %	
Titanium, Ti	>= 88.005 %	>= 88.005 %	As Remainder
Vanadium, V	3.5 - 4.5 %	3.5 - 4.5 %	

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