

## Kobe Steel KS15-5-3 Beta Titanium Alloy, AMS 4914, Solution treated and aged, Forgings

Category : Metal , Nonferrous Metal , Titanium Alloy

**Material Notes:**

Nominal Composition: Ti-15 Mo-5 Zr-3 Al Applications: Implant materials for orthopedics, erosion shields, gold club heads. Features: Super high strength. Information provided by Kobe Steel

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Kobe-Steel-KS15-5-3-Beta-Titanium-Alloy-AMS-4914-Solution-treated-and-aged-Forgings.php](http://www.lookpolymers.com/polymer_Kobe-Steel-KS15-5-3-Beta-Titanium-Alloy-AMS-4914-Solution-treated-and-aged-Forgings.php)

Physical Properties	Metric	English	Comments
Density	5.01 g/cc	0.181 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	>= 1250 MPa	>= 181000 psi	
Tensile Strength, Yield	>= 1103 MPa	>= 160000 psi	0.2% proof
Elongation at Break	>= 5.0 %	>= 5.0 %	
Reduction of Area	>= 10 %	>= 10 %	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	2.5 - 3.5 %	2.5 - 3.5 %	
Carbon, C	<= 0.080 %	<= 0.080 %	
Hydrogen, H	<= 0.020 %	<= 0.020 %	
Iron, Fe	<= 0.35 %	<= 0.35 %	
Molybdenum, Mo	14 - 16 %	14 - 16 %	
Nitrogen, N	<= 0.050 %	<= 0.050 %	
Oxygen, O	<= 0.20 %	<= 0.20 %	
Titanium, Ti	>= 74.3 %	>= 74.3 %	As Remainder
Zirconium, Zr	4.5 - 5.5 %	4.5 - 5.5 %	

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