

## Kobe Steel KS40 Commercially Pure Titanium, ASTM Gr. 1, Annealed

Category : Metal , Nonferrous Metal , Titanium Alloy

**Material Notes:**

Nominal Composition: Ti-Fe-O Applications: PHE, press formed parts, roofs, walls Features: Excellent formability, Excellent corrosion resistance Information provided by Kobe Steel

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Kobe-Steel-KS40-Commercially-Pure-Titanium-ASTM-Gr-1-Annealed.php](http://www.lookpolymers.com/polymer_Kobe-Steel-KS40-Commercially-Pure-Titanium-ASTM-Gr-1-Annealed.php)

Physical Properties	Metric	English	Comments
Density	4.50 g/cc	0.163 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	>= 240 MPa	>= 34800 psi	
Tensile Strength, Yield	170 - 310 MPa @Strain 0.200 %	24700 - 45000 psi @Strain 0.200 %	
Elongation at Break	>= 24 %	>= 24 %	
Reduction of Area	>= 30 %	>= 30 %	
Bend Radius, Minimum	1.5 t	1.5 t	t &le; 1.8 mm
	2.0 t	2.0 t	1.8 &lt; t &le; 4.75 mm

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.080 %	<= 0.080 %	
Hydrogen, H	<= 0.015 %	<= 0.015 %	
Iron, Fe	<= 0.20 %	<= 0.20 %	
Nitrogen, N	<= 0.030 %	<= 0.030 %	
Oxygen, O	<= 0.18 %	<= 0.18 %	
Titanium, Ti	>= 99.495 %	>= 99.495 %	As Remainder

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