

Kobe Steel KS60AKOT Titanium alloy with low alloying elements, ASTM Gr. 33, Annealed

Category : Metal , Nonferrous Metal , Titanium Alloy

Material Notes:

Nominal Composition: Ti-0.4 Ni-0.015 Pd-0.025 Ru-0.14 Cr Applications: Condenser tubes, heat transfer tubes, piping, linings, electrolysis vessels, chemical use. Features: Super corrosion resistant. Information provided by Kobe Steel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kobe-Steel-KS60AKOT-Titanium-alloy-with-low-alloying-elements-ASTM-Gr-33-Annealed.php

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

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	>= 345 MPa	>= 50000 psi	
Tensile Strength, Yield	275 - 450 MPa	39900 - 65300 psi	0.2% proof
Elongation at Break	>= 20 %	>= 20 %	
Reduction of Area	>= 30 %	>= 30 %	
Bend Radius, Minimum	2.0 t	2.0 t	t ≤ 1.8 mm
	2.5 t	2.5 t	1.8 < t ≤ 4.75 mm

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.080 %	<= 0.080 %	
Chromium, Cr	0.10 - 0.20 %	0.10 - 0.20 %	
Hydrogen, H	<= 0.015 %	<= 0.015 %	
Iron, Fe	<= 0.30 %	<= 0.30 %	
Nickel, Ni	0.35 - 0.55 %	0.35 - 0.55 %	
Nitrogen, N	<= 0.030 %	<= 0.030 %	
Oxygen, O	<= 0.25 %	<= 0.25 %	
Palladium, Pd	0.010 - 0.020 %	0.010 - 0.020 %	
Ruthenium, Ru	0.020 - 0.040 %	0.020 - 0.040 %	
Titanium, Ti	>= 98.515 %	>= 98.515 %	As Remainder

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