

Kobe Steel KSG12 Titanium alloy with low alloying elements, ASTM Gr. 12, Annealed

Category : Metal , Nonferrous Metal , Titanium Alloy

Material Notes:

Nominal Composition: Ti-0.3 Mo-0.8 Ni 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-KSG12-Titanium-alloy-with-low-alloying-elements-ASTM-Gr-12-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	>= 483 MPa	>= 70100 psi	
Tensile Strength, Yield	>= 345 MPa	>= 50000 psi	0.2% proof
Elongation at Break	>= 18 %	>= 18 %	
Reduction of Area	>= 25 %	>= 25 %	
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 %	
Hydrogen, H	≤ 0.015 %	≤ 0.015 %	
Iron, Fe	≤ 0.30 %	≤ 0.30 %	
Molybdenum, Mo	0.20 - 0.40 %	0.20 - 0.40 %	
Nickel, Ni	0.60 - 0.90 %	0.60 - 0.90 %	
Nitrogen, N	≤ 0.030 %	≤ 0.030 %	
Oxygen, O	≤ 0.25 %	≤ 0.25 %	
Titanium, Ti	>= 98.025 %	>= 98.025 %	As Remainder

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