

Material: ASTM A 732 Grade 21

Standard Specification for Castings, Investment, Carbon and Low Alloy Steel for General Application: *nd Cobalt alloy for High Strength at Elevated Temperatures*

Group: Non-Ferrous Nickel Alloys

Sub Group: ASTM A 732 Grade 21 Castings, Investment, Carbon and Low Alloy Steel for General Application and Cobalt alloy for High Strength at Elevated Temperatures

Application: Intended for Valve, Pump, General Engineering, Automotive, Medical and other Industries

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.200 - 0.300	As-Cast or Annealing or Age Hardning	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Chromium	Cr %	25.000 - 29.000		
Sulphur	S %	0.040 max.		
Molybdenum	Mo %	5.000 - 6.000		
Phosphorus	P %	0.040 max.		
Boron	B %	0.007 max.		
Iron	Fe %	3.000 max.		
Nickel	Ni %	1.700 - 3.800		
Cobalt	Co %	Balance	Mechanical Properties Tensile Strength in Mpa 360 min. Yield Strength in Mpa - Elongation in % 10 min. Reduction of Area in % - Hardness in BHN - Impact in Joule -	
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-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A 567 Grade 1	ASTM	USA	Casting
5385	SAE	USA	Casting
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Customer Care: +91-99090 45075 Email: info@icastllp.com