

# Material: ASTM A 732 Grade 21

## Standard Specification for Castings, Investment, Carbon and Low Alloy Steel for General Application and 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		
Carbon	C %	0.200 - 0.300
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
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
	As-Cast or Annealing or Age Hardening

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	-

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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