

Material: ASTM B 39

Standard Specification for Nickel

Group: Non-Ferrous Nickel Alloys

Sub Group: ASTM B 39 Nickel Alloy

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

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.030 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.005 max.		
Manganese	Mn %	0.005 max.		
Phosphorus	P %	0.005 max.		
Sulphur	S %	0.010 max.		
Cobalt	Co %	0.150 max.		
Copper	Cu %	0.020 max.		
Iron	Fe %	0.020 max.		
Arsenic	As %	0.005 max.	Mechanical Properties	
Lead	Pb %	0.005 max.	Tensile Strength in Mpa	300 - 450
Antimony	Sb %	0.005 max.	Yield Strength in Mpa	-
Bismuth	Bi %	0.005 max.	Elongation in %	-
Tin	Sn %	0.005 max.	Reduction of Area in %	-
Zinc	Zn %	0.005 max.	Hardness in BHN	-
Nickel	Ni %	99.800 min.	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
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