

# 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		
Carbon	C %	0.030 max.
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.
Lead	Pb %	0.005 max.
Antimony	Sb %	0.005 max.
Bismuth	Bi %	0.005 max.
Tin	Sn %	0.005 max.
Zinc	Zn %	0.005 max.
Nickel	Ni %	99.800 min.

Heat Treatment
As-Cast or Annealing or Age Hardning

Mechanical Properties	
Tensile Strength in Mpa	300 - 450
Yield Strength in Mpa	-
Elongation in %	-
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

**Disclaimer:** All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)



+91-99090 45075



[info@icastllp.com](mailto:info@icastllp.com)



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India