

Material: ASTM B 637 N07080

Standard Specification for Precipitation-Hardening and Cold Worked Nickel Alloy Bars, Forgings, and Forging Stock for Moderate or High Temperature Service

Group: Non-Ferrous Nickel Alloys

Sub Group: ASTM B 637 N07080 Precipitation-Hardening and Cold Worked Nickel Alloy Bars, Forgings, and Forging Stock for Moderate or High Temperature Service

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

Grade Belongs to the Industry: Bars, Forgings and Forging

Chemical Composition		
Carbon	C %	0.100 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	1.000 max.
Chromium	Cr %	18.000 - 21.000
Sulphur	S %	0.015 max.
Aluminium	Al %	0.500 - 1.800
Iron	Fe %	3.000 max.
Titanium	Ti %	1.800 - 2.700
Nickel	Ni %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
As-Cast or Annealing or Age Hardning	

Mechanical Properties	
Tensile Strength in Mpa	930 min.
Yield Strength in Mpa	620 min.
Elongation in %	20 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Nimonic Alloy 80A	Gravity	India	Pipe, Tube, Sheet, Strip, Plate, Hexagon and Wire
SB-637 N07080	ASME	USA	Bars, Forgings and Forging
N07080	UNS	USA	Bars, Forgings and Forging
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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Customer Care: +91-99090 45075 Email: info@icastllp.com



+91-99090 45075



info@icastllp.com



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