

Material: UNS 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: UNS 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			Heat Treatment	
Carbon	C %	0.100 max.	As-Cast or Annealing or Age Hardning	
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		
-	-	-	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
B 637 N07080	ASTM	USA	Bars, Forgings and Forging
N07080	UNS	USA	Bars, Forgings and Forging
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