GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - UNS N07773

Standard Specification for Precipitation Hardening Nickel Alloys Bar and Wire

Group - Non-Ferrous Nickel Alloys

Sub Group - UNS N07773 Precipitation Hardening Nickel Alloys Bar and Wire

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

Grade Belongs to the Industry - Bar and Wire

Chemical Composition		
Carbon	C %	0.030 max.
Silicon	Si %	0.500 max.
Manganese	Mn %	1.000 max.
Chromium	Cr %	18.000 - 27.000
Sulphur	S %	0.010 max.
Molybdenum	Mo %	2.500 - 5.500
Phosphorus	P %	0.030 max.
Niobium	Nb %	2.500 - 6.000
Titanium	Ti %	2.000 max.
Aluminium	Al %	2.000 max.
Tungsten	W %	0.500 max.
Molybdenum	Mo %	2.500 - 5.500
Nickel	Ni %	45.000 - 60.000
Iron	Fe %	Balance
-	-	-

Heat Treatment
As-Cast or Annealing or Age Hardning

Mechanical Properties	
Tensile Strength in Mpa	621 min.
Yield Strength in Mpa	241 min.
Elongation in %	20 min.
Reduction of Area in %	30 min.
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
B 805 N07773	ASTM	USA	Bar and Wire
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com