



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - Gravity Nimonic Alloy 80A

Standard Specification for Seamless Nickel and Nickel Alloy Pipe, Tube, Sheet, Strip, Plate, Round Bar, Flat Bar, Forging Stock, Hexagon and Wire

Group - Non-Ferrous Nickel Alloys

Sub Group - Gravity Nimonic Alloy 80A Seamless Nickel and Nickel Alloy Pipe, Tube, Sheet, Strip, Plate, Round Bar, Flat Bar, Forging Stock, Hexagon and Wire

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

Grade Belongs to the Industry - Pipe, Tube, Sheet, Strip, Plate, Hexagon and Wire

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.		
Copper	Cu %	0.200 max.		
Cobalt	Co %	2.000 max.		
Aluminium	Al %	1.000 - 1.800		
Boron	B %	0.008 max.		
Iron	Fe %	3.000 max.		
Titanium	Ti %	1.800 - 2.700	Mechanical Properties Tensile Strength in Mpa 900 - 1229.7 Yield Strength in Mpa 550 - 784 Elongation in % 15 - 39 Reduction of Area in % 42.836 - 47.023 Hardness in HV 310 min. Impact in Joule -	
Zirconium	Zr %	0.150 max.		
Lead	Pb %	0.0025 max.		
Nickel	Ni %	Balance		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 637 N07080	ASTM	USA	Bars, Forgings and Forging
SB-637 N07080	ASME	USA	Bars, Forgings and Forging
N07080	UNS	USA	Bars, Forgings and Forging
-	-	-	-
-	-	-	-
-	-	-	-
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Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

ONE STOP SOLUTION FOR METAL PARTS