



**GRAVITY CAST PVT. LTD.**  
**GRAVITY GROUP OF COMPANIES**

## Material - Gravity Nimonic Alloy 90

**Standard Specification for Seamless Nickel-Chromium-Cobalt base Alloy Tube, Forging Stock, Hexagon and Wire**

**Group - Non-Ferrous Nickel Alloys**

**Sub Group - Gravity Nimonic Alloy 90 Seamless Nickel-Chromium-Cobalt base Alloy Tube, Forging Stock, Hexagon and Wire**

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

**Grade Belongs to the Industry - Tube, Forging Stock, Hexagon and Wire**

Chemical Composition			Heat Treatment	
Carbon	C %	0.130 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 %	1.000 - 2.000		
Boron	B %	0.020 max.		
Cobalt	Co %	15.000 - 21.000		
Copper	Cu %	0.200 max.		
Lead	Pb %	0.002 max.		
Titanium	Ti %	2.000 - 3.000	Mechanical Properties	
Iron	Fe %	1.500 max.	Tensile Strength in Mpa	1175 - 1265
Zirconium	Zr %	0.150 max.	Yield Strength in Mpa	752 - 831
Iron	Fe %	1.500 max.	Elongation in %	23 - 33
Nickel	Ni %	Balance	Reduction of Area in %	41 - 47
			Hardness in BHN	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
N07090	UNS	USA	Tube, Forging Stock, Hexagon 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](mailto: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**