



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - Gravity Nimonic Alloy 105

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 105 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 %	0.170 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Chromium	Cr %	14.000 - 15.700		
Sulphur	S %	0.010 max.		
Molybdenum	Mo %	4.500 - 5.500		
Cobalt	Co %	18.000 - 22.000		
Copper	Cu %	0.200 max.		
Aluminium	Al %	4.500 - 4.900		
Boron	B %	0.003 - 0.010		
Titanium	Ti %	0.900 - 1.500	Mechanical Properties	
Lead	Pb %	0.0015 max.	Tensile Strength in Mpa	1140 - 1246
Zirconium	Zr %	0.150 max.	Yield Strength in Mpa	776 - 830
Iron	Fe %	1.000 max.	Elongation in %	16 - 25
Nickel	Ni %	Balance	Reduction of Area in %	16 - 35
			Hardness in BHN	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Nimonic 105	SAE	USA	Pipe, Tube, Sheet, Strip, Plate, 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

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.

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