



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - UNS N09945

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 - UNS N09945 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 %	0.005 - 0.040	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.500 max.		
Manganese	Mn %	1.000 max.		
Chromium	Cr %	19.500 - 23.000		
Sulphur	S %	0.010 max.		
Molybdenum	Mo %	3.000 - 4.000		
Copper	Cu %	1.500 - 3.000		
Aluminium	Al %	0.010 - 0.700	Mechanical Properties	
Phosphorus	P %	0.020 max.	Tensile Strength in Mpa	1034 min.
Niobium	Nb %	2.800 - 3.500	Yield Strength in Mpa	862 min.
Titanium	Ti %	0.500 - 2.500	Elongation in %	15 min.
Nickel	Ni %	45.000 - 55.000	Reduction of Area in %	20 min.
Iron	Fe %	Balance	Hardness in HRC	34 - 46
-	-	-	Impact in Joule	54 @RT
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Incoloy Alloy 945	Gravity	India	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.

ONE STOP SOLUTION FOR METAL PARTS