



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - Gravity Inconel Alloy 740H

Standard Specification for Nickel and Nickel-Related Alloys

Group - Non-Ferrous Nickel Alloys

Sub Group - Gravity Inconel Alloy 740H Nickel and Nickel-Related Alloys

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

Grade Belongs to the Industry - Plate, Sheet and Strip

Chemical Composition			Heat Treatment	
Carbon	C %	0.005 - 0.080	As-Cast or Annealing or Age Hardning	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Chromium	Cr %	23.500 - 25.500		
Molybdenum	Mo %	2.000 max.		
Cobalt	Co %	15.000 - 22.000		
Aluminium	Al %	0.200 - 2.000		
Nb + Ta	Nb% + Ta%	0.500 - 2.500		
Titanium	Ti %	0.500 - 2.500		
Boron	B %	0.0006 - 0.006		
Copper	Cu %	0.500 max.	Mechanical Properties Tensile Strength in Mpa 1066 - 1158 Yield Strength in Mpa 724 - 782 Elongation in % 23.600 - 35.300 Reduction of Area in % 27.600 - 40.000 Hardness in BHN - Impact in Joule -	
Iron	Fe %	3.000 max.		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.030 max.		
Nickel	Ni %	Balance		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B872 N07740	ASTM	USA	Plate, Sheet and Strip
B983 N07740	ASTM	USA	Plate, Sheet and Strip
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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