



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - UNS N07751

Standard Specification for Nickel and Nickel-Related Alloys

Group - Non-Ferrous Nickel Alloys

Sub Group - UNS N07751 Nickel and Nickel-Related Alloys

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

Grade Belongs to the Industry - Round Bar

Chemical Composition			Heat Treatment	
Carbon	C %	0.100 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.500 max.		
Manganese	Mn %	1.000 max.		
Chromium	Cr %	14.000 - 17.000		
Aluminium	Al %	0.900 - 1.500		
Copper	Cu %	0.500 max.		
Sulphur	S %	0.010 max.		
Niobium	Nb %	0.700 - 1.200		
Iron	Fe %	5.000 - 9.000	Mechanical Properties	
Titanium	Ti %	2.000 - 2.600	Tensile Strength in Mpa	1100 - 1300
Nickel	Ni %	Balance	Yield Strength in Mpa	630 - 850
-	-	-	Elongation in %	12 - 33
-	-	-	Reduction of Area in %	20 - 32
-	-	-	Hardness in HRC	32 - 40
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Inconel 751	SAE	USA	Round Bar
NiCr 15 Fe 7 TiAl	ISO	International	Round Bar
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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