



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

## Material - ISO NiCr 15 Fe 7 TiAl

### Standard Specification for Nickel and Nickel-Related Alloys

Group - Non-Ferrous Nickel Alloys

Sub Group - ISO NiCr 15 Fe 7 TiAl 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 %	0.030 - 0.100	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.500 max.		
Manganese	Mn %	0.500 max.		
Chromium	Cr %	14.000 - 17.000		
Aluminium	Al %	1.100 - 1.350		
Sulphur	S %	0.015 max.		
Molybdenum	Mo %	0.500 max.		
Nb + Ta	Nb% + Ta%	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	750 max.
-	-	-	Elongation in %	12 min.
-	-	-	Reduction of Area in %	20 min.
-	-	-	Hardness in HRC	32 min.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Inconel 751	SAE	USA	Round Bar
N07751	UNS	USA	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](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**