



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

## Material - DIN 2.4654

### Standard Specification for Nickel and Nickel Alloy Casting

Group - Non-Ferrous Nickel Alloys

Sub Group - DIN 2.4654 Nickel and Nickel Alloy Casting

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.020 - 0.100	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.150 max.		
Manganese	Mn %	1.000 max.		
Chromium	Cr %	18.000 - 21.000		
Aluminium	Al %	1.200 - 1.600		
Boron	B %	0.003 - 0.010		
Cobalt	Co %	12.000 - 15.000		
Copper	Cu %	0.100 max.		
Iron	Fe %	2.000 max.		
Molybdenum	Mo %	3.500 - 5.000		
Phosphorus	P %	0.015 max.	<b>Mechanical Properties</b> Tensile Strength in Mpa   1100 min. Yield Strength in Mpa   760 min. Elongation in %   15 min. Reduction of Area in %   - Hardness in BHN   - Impact in Joule   -	
Sulphur	S %	0.015 max.		
Titanium	Ti %	2.800 - 3.300		
Zirconium	Zr %	0.020 - 0.080		
Nickel	Ni %	Balance		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
NiCr20Co13Mo4Ti3Al	DIN	International	Casting
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

**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**