



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

## Material - DIN 2.4878

### Standard Specification for Nickel and Nickel Alloy Casting

Group - Non-Ferrous Nickel Alloys

Sub Group - DIN 2.4878 Nickel and Nickel Alloy Casting

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

Grade Belongs to the Industry - Casting

Chemical Composition			Chemical Composition		
Carbon	C %	0.030 - 0.070	Zirconium	Zr %	0.030 - 0.070
Silicon	Si %	0.500 max.	Nickel	Ni %	Balance
Manganese	Mn %	0.500 max.	-	-	-
Chromium	Cr %	23.000 - 25.000	-	-	-
Copper	Cu %	0.200 max.	-	-	-
Cobalt	Co %	19.000 - 21.000	<b>Heat Treatment</b>		
Aluminium	Al %	1.200 - 1.600	As-Cast or Annealing or Age Hardning		
Boron	B %	0.010 - 0.015	<b>Mechanical Properties</b>		
Iron	Fe %	1.000 max.	Tensile Strength in Mpa	1080 min.	
Molybdenum	Mo %	1.000 - 2.000	Yield Strength in Mpa	650 min.	
Nb + Ta	Nb% + Ta%	0.700 - 1.200	Elongation in %	12 min.	
Phosphorus	P %	0.010 max.	Reduction of Area in %	-	
Sulphur	S %	0.007 max.	Hardness in BHN	-	
Tantalum	Ta %	0.050 max.	Impact in Joule	-	
Titanium	Ti %	2.800 - 3.200			

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
NiCr25Co20TiMo	DIN	Germany	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**