



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

## Material - Gravity VDM alloy 617 B

### Standard Specification for Nickel and Nickel Alloy Pipe

Group - Non-Ferrous Nickel Alloys

Sub Group - Gravity VDM alloy 617 B Nickel and Nickel Alloy Pipe

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

Grade Belongs to the Industry - Pipe

Chemical Composition			Heat Treatment	
Carbon	C %	0.050 - 0.080	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.300 max.		
Manganese	Mn %	0.500 max.		
Chromium	Cr %	21.000 - 23.000		
Cobalt	Co %	11.000 - 13.000		
Aluminium	Al %	0.800 - 1.300		
Boron	B %	0.001 - 0.005		
Molybdenum	Mo %	8.000 - 10.000		
Niobium	Nb %	0.600 max.		
Phosphorus	P %	0.012 max.		
Sulphur	S %	0.008 max.	<b>Mechanical Properties</b> Tensile Strength in Mpa      680 min. Yield Strength in Mpa      300 min. Elongation in %      30 min. Reduction of Area in %      - Hardness in HV      - Impact in Joule      -	
Titanium	Ti %	0.250 - 0.500		
Vanadium	V %	0.600 max.		
Iron	Fe %	1.500 max.		
Nickel	Ni %	Balance		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
2.4673	DIN	Germany	Rod and Forging
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

**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.

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