



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

## Material - ASTM B 619 N10675

### Standard Specification for Nickel and Nickel-Cobalt Alloy Pipe

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM B 619 N10675 Nickel and Nickel-Cobalt Alloy Pipe

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

Grade Belongs to the Industry - Pipe

Chemical Composition			Chemical Composition		
Carbon	C %	0.010 max.	Tantalum	Ta %	0.200 max.
Silicon	Si %	0.100 max.	Zirconium	Zr %	0.100 max.
Manganese	Mn %	3.000 max.	Ni + Mo	Ni% + Mo%	94.000 - 98.000
Copper	Cu %	0.200 max.	Nickel	Ni %	65.000 min.
Sulphur	S %	0.010 max.	-	-	-
Chromium	Cr %	1.000 - 3.000	Heat Treatment		
Phosphorus	P %	0.030 max.	As-Cast or Annealing or Age Hardning		
Molybdenum	Mo %	27.000 - 32.000	Mechanical Properties		
Iron	Fe %	1.000 - 3.000	Tensile Strength in Mpa	760 min.	
Cobalt	Co %	3.000 max.	Yield Strength in Mpa	350 min.	
Tungsten	W %	3.000 max.	Elongation in %	40 min.	
Vanadium	V %	0.200 max.	Reduction of Area in %	-	
Titanium	Ti %	0.200 max.	Hardness in BHN	-	
Tungsten	W %	3.000 max.	Impact in Joule	-	
Niobium	Nb %	0.200 max.			

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 333 N10675	ASTM	USA	Plate, Sheet and Strip
B 335 N10675	ASTM	USA	Rod
B 564 N10675	ASTM	USA	Forging
B 472 N10675	ASTM	USA	Bar
B 622 N10675	ASTM	USA	Pipe and Tube
B 626 N10675	ASTM	USA	Tube
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**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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