



## Material - ASTM B 619 N06985

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

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM B 619 N06985 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			Heat Treatment	
Carbon	C %	0.015 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Chromium	Cr %	21.000 - 23.500		
Sulphur	S %	0.030 max.		
Molybdenum	Mo %	6.000 - 8.000		
Phosphorus	P %	0.040 max.		
Nb + Ta	Nb% + Ta%	0.500 max.		
Tungsten	W %	1.500 max.		
Copper	Cu %	1.500 - 2.500		
Cobalt	Co %	5.000 max.	<b>Mechanical Properties</b> Tensile Strength in Mpa      621 min. Yield Strength in Mpa      241 min. Elongation in %      45 min. Reduction of Area in %      - Hardness in BHN      - Impact in Joule      -	
Iron	Fe %	18.000 - 21.000		
Nickel	Ni %	Balance		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 581 N06975	ASTM	USA	Rod
B 582 N06985	ASTM	USA	Plate, Sheet and Strip
B 622 N06985	ASTM	USA	Pipe and Tube
B 626 N06985	ASTM	USA	Tube
SB-581 N06985	ASME	USA	Rod
SB-582 N06985	ASME	USA	Plate, Sheet and Strip
SB-619 N06985	ASME	USA	Pipe

**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)**

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