



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

## Material - ASTM B 581 N06975

**Standard Specification for Nickel-Chromium-Iron-Molybdenum-Copper Alloy Rod**

**Group - Non-Ferrous Nickel Alloys**

**Sub Group - ASTM B 581 N06975 Nickel-Chromium-Iron-Molybdenum-Copper Alloy Rod**

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

**Grade Belongs to the Industry - Rod**

Chemical Composition			Heat Treatment	
Carbon	C %	0.030 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Chromium	Cr %	23.000 - 26.000		
Sulphur	S %	0.030 max.		
Molybdenum	Mo %	5.000 - 7.000		
Phosphorus	P %	0.030 max.		
Titanium	Ti %	0.700 - 1.500		
Copper	Cu %	0.700 - 1.200		
Nickel	Ni %	47.000 - 52.000		
Iron	Fe %	Balance	<b>Mechanical Properties</b> Tensile Strength in Mpa   586 min. Yield Strength in Mpa   221 min. Elongation in %   40 min. Reduction of Area in %   - Hardness in BHN   - Impact in Joule   -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

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

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**