



## Material - ASME SB-581 N06985

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

Group - Non-Ferrous Nickel Alloys

Sub Group - ASME SB-581 N06985 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 %	0.015 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.	Mechanical Properties	
Copper	Cu %	1.500 - 2.500	Tensile Strength in Mpa	586 min.
Cobalt	Co %	5.000 max.	Yield Strength in Mpa	207 min.
Iron	Fe %	18.000 - 21.000	Elongation in %	35 min.
Nickel	Ni %	Balance	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 582 N06985	ASTM	USA	Plate, Sheet and Strip
B 619 N06985	ASTM	USA	Pipe
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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