



## Material - ASME SB-581 N06007

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

Group - Non-Ferrous Nickel Alloys

Sub Group - ASME SB-581 N06007 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 %	0.050 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 - 2.000		
Chromium	Cr %	21.000 - 23.500		
Sulphur	S %	0.030 max.		
Molybdenum	Mo %	5.500 - 7.500		
Phosphorus	P %	0.040 max.		
Cobalt	Co %	2.500 max.	<b>Mechanical Properties</b> Tensile Strength in Mpa   586 min. Yield Strength in Mpa   207 min. Elongation in %   30 min. Reduction of Area in %   - Hardness in BHN   - Impact in Joule   -	
Iron	Fe %	18.000 - 21.000		
Copper	Cu %	1.500 - 2.500		
Tungsten	W %	1.000 max.		
Nitrogen	N %	0.150 - 0.250		
Nb + Ta	Nb% + Ta%	1.750 - 2.500		
Nickel	Ni %	Balance		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 581 N06007	ASTM	USA	Rod
B 582 N06007	ASTM	USA	Plate, Sheet and Strip
B 619 N06007	ASTM	USA	Pipe
B 622 N06007	ASTM	USA	Pipe and Tube
B 626 N06007	ASTM	USA	Tube
SB-619 N06007	ASME	USA	Pipe
SB-626 N06007	ASME	USA	Tube

**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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