



Material - ASME SB-446 N06650

Standard Specification for Nickel-Chromium-Molybdenum-Columbium Alloy, Rod and Bar

Group - Non-Ferrous Nickel Alloys

Sub Group - ASME SB-446 N06650 Nickel-Chromium-Molybdenum-Columbium Alloy, Rod and Bar Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries Grade Belongs to the Industry - Rod and Bar

Chemical Composition			Heat Treatment	
Carbon	C %	0.030 max.		
Silicon	Si %	0.500 max.		
Manganese	Mn %	0.500 max.		
Chromium	Cr %	19.000 - 21.000	As-Cast or Annealing or Age Hardning	or Age Hardning
Sulphur	S %	0.010 max.		
Copper	Cu %	0.300 max.		
Iron	Fe %	12.000 - 16.000		
Molybdenum	Mo %	9.500 - 12.500		
Cobalt	Co %	1.000 max.	Mechanical Properties	
Aluminium	Al %	0.050 - 0.500	Tensile Strength in Mpa	800 min.
Nb + Ta	Nb% + Ta%	0.050 - 0.500	Yield Strength in Mpa	400 min.
Phosphorus	P %	0.020 max.	Elongation in %	45 min.
Tungsten	W %	0.500 - 2.500	Reduction of Area in %	-
Nitrogen	N %	0.050 - 0.200	Hardness in BHN	-
Nickel	Ni %	Balance	Impact in Joule	-

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
B 446 N06650	ASTM	USA	Rod and Bar	
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-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
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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

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