

Material: ASTM B 446 N06650

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

Group: Non-Ferrous Nickel Alloys

Sub Group: ASTM B 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.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.500 max.		
Manganese	Mn %	0.500 max.		
Chromium	Cr %	19.000 - 21.000		
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.		
Aluminium	Al %	0.050 - 0.500		
			Mechanical Properties	
Nb + Ta	Nb% + Ta%	0.050 - 0.500	Tensile Strength in Mpa	800 min.
Phosphorus	P %	0.020 max.	Yield Strength in Mpa	400 min.
Tungsten	W %	0.500 - 2.500	Elongation in %	45 min.
Nitrogen	N %	0.050 - 0.200	Reduction of Area in %	-
Nickel	Ni %	Balance	Hardness in BHN	-
			Impact in Joule	-

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