

Material: UNS N10003

Standard Specification for Nickel-Molybdenum-Chromium-Iron Alloys Rod

Group: Non-Ferrous Nickel Alloys

Sub Group: UNS N10003 Nickel-Molybdenum-Chromium-Iron Alloys Rod

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

Grade Belongs to the Industry: Rod

Chemical Composition			Heat Treatment	
Carbon	C %	0.040 - 0.080	As-Cast or Annealing or Age Hardning	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Chromium	Cr %	6.000 - 8.000		
Sulphur	S %	0.020 max.		
Molybdenum	Mo %	15.000 - 18.000		
Phosphorus	P %	0.015 max.		
Cobalt	Co %	0.200 max.		
Copper	Cu %	0.350 max.		
Iron	Fe %	5.000 max.		
Boron	B %	0.010 max.	Mechanical Properties	
Tungsten	W %	0.500 max.	Tensile Strength in Mpa	690 min.
Vanadium	V %	0.500 max.	Yield Strength in Mpa	280 min.
Aluminium	Al %	0.500 max.	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 434 N10003	ASTM	USA	Plate, Sheet and Strip
B 573 N10003	ASTM	USA	Rod
SB-434 N10003	ASME	USA	Plate, Sheet and Strip
SB-573 N10003	ASME	USA	Rod
-	-	-	-
-	-	-	-
-	-	-	-

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