

Material: ASTM B 166 N06617

Standard Specification for Nickel-Chromium-Iron Alloys and Nickel-Chromium-Cobalt-Molybdenum Alloy Rod, Bar and Wire

Group: Non-Ferrous Nickel Alloys

Sub Group: ASTM B 166 N06617 Nickel-Chromium-Iron Alloys and Nickel-Chromium-Cobalt-Molybdenum Alloy Rod, Bar and Wire

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

Grade Belongs to the Industry: Rod, Bar and Wire

Chemical Composition			Heat Treatment	
Carbon	C %	0.050 - 0.150	As-Cast or Annealing or Age Hardning	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Copper	Cu %	0.500 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	20.000 - 24.000		
Cobalt	Co %	10.000 - 15.000		
Molybdenum	Mo %	8.000 - 10.000		
Iron	Fe %	3.000 max.		
Aluminium	Al %	0.800 - 1.500		
Titanium	Ti %	0.600 max.	Mechanical Properties	
Boron	B %	0.006 max.	Tensile Strength in Mpa	655 min.
Nickel	Ni %	44.500 min.	Yield Strength in Mpa	240 min.
-	-	-	Elongation in %	35 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 167 N06617	ASTM	USA	Pipe and Tube
B 168 N06617	ASTM	USA	Plate, Sheet and Strip
B 564 N06617	ASTM	USA	Forging
B 626 N06617	ASTM	USA	Tube
B 546 N06617	ASTM	USA	Pipe
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