

Material: ASTM B 408 N08890

Standard Specification for Nickel-Iron-Chromium Alloy Rod and Bar

Group: Non-Ferrous Nickel Alloys

Sub Group: ASTM B 408 N08890 Nickel-Iron-Chromium 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 %	0.060 - 0.140	As-Cast or Annealing or Age Hardning	
Silicon	Si %	1.000 - 2.000		
Manganese	Mn %	1.500 max.		
Chromium	Cr %	23.500 - 28.500		
Copper	Cu %	0.750 max.		
Sulphur	S %	0.015 max.		
Aluminium	Al %	0.050 - 0.600		
Titanium	Ti %	0.150 - 0.600		
Molybdenum	Mo %	1.000 - 2.000		
Niobium	Nb %	0.200 - 1.000		
			Mechanical Properties	
Tantalum	Ta %	0.100 - 0.600	Tensile Strength in Mpa	520 min.
Nickel	Ni %	40.000 - 45.000	Yield Strength in Mpa	205 min.
Iron	Fe %	Balance	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 407 N08890	ASTM	USA	Pipe and Tube
B 407 N08890	ASTM	USA	Pipe and Tube
SB-407 N08890	ASME	USA	Pipe and Tube
SB-408 N08890	ASME	USA	Rod and Bar
SB-409 N08890	ASME	USA	Plate, Sheet and Strip
-	-	-	-
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