



## Material - ASME SB-407 N08890

### Standard Specification for Nickel-Iron-Chromium Alloy Seamless Pipe and Tube

Group - Non-Ferrous Nickel Alloys

Sub Group - ASME SB-407 N08890 Nickel-Iron-Chromium Alloy Seamless Pipe and Tube

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

Grade Belongs to the Industry - Pipe and Tube

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		
Tantalum	Ta %	0.100 - 0.600	<b>Mechanical Properties</b> Tensile Strength in Mpa   520 min. Yield Strength in Mpa   205 min. Elongation in %   35 min. Reduction of Area in %   - Hardness in BHN   - Impact in Joule   -	
Nickel	Ni %	40.000 - 45.000		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 408 N08890	ASTM	USA	Rod and Bar
B 409 N08890	ASTM	USA	Plate, Sheet and Strip
B 407 N08890	ASTM	USA	Pipe and Tube
SB-408 N08890	ASME	USA	Rod and Bar
SB-409 N08890	ASME	USA	Plate, Sheet and Strip
-	-	-	-
-	-	-	-

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +91846916029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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