



**GRAVITY CAST PVT. LTD.**  
**GRAVITY GROUP OF COMPANIES**

## Material - ASME SB-408 N08890

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

Group - Non-Ferrous Nickel Alloys

Sub Group - ASME SB-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		
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 407 N08890	ASTM	USA	Pipe and Tube
B 407 N08890	ASTM	USA	Pipe and Tube
B 408 N08890	ASTM	USA	Rod and Bar
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 +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

**ONE STOP SOLUTION FOR METAL PARTS**