



## Material - ASTM B 409 N08811

### Standard Specification for Nickel-Iron-Chromium Alloy Plate, Sheet and Strip

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM B 409 N08811 Nickel-Iron-Chromium Alloy Plate, Sheet and Strip

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

Grade Belongs to the Industry - Plate, Sheet and Strip

Chemical Composition			Heat Treatment	
Carbon	C %	0.060 - 0.100	As-Cast or Annealing or Age Hardning	
Chromium	Cr %	19.000 - 23.000		
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.500 max.		
Aluminium	Al %	0.150 - 0.600		
Sulphur	S %	0.015 max.		
Copper	Cu %	0.750 max.		
Titanium	Ti %	0.150 - 0.600		
Iron	Fe %	39.500 max.		
Al + Ti	Al % + Ti %	0.850 - 1.200		
Nickel	Ni %	30.000 - 35.000	<b>Mechanical Properties</b> Tensile Strength in Mpa      450 min. Yield Strength in Mpa      170 min. Elongation in %      30 min. Reduction of Area in %      - Hardness in BHN      - Impact in Joule      -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 163 N08811	ASTM	USA	Tube
B 407 N08811	ASTM	USA	Pipe and Tube
B 408 N08811	ASTM	USA	Rod and Bar
B 564 N08811	ASTM	USA	Forging
SB-163 N08811	ASME	USA	Tube
N08811	UNS	USA	Tube
-	-	-	-

**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.