



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - SAE 5871

Standard Specification for Iron-Nickel-Chromium Alloy, Corrosion- and Heat-Resistant, Sheet, Strip and Plate

Group - Non-Ferrous Nickel Alloys

Sub Group - SAE 5871 Iron-Nickel-Chromium Alloy, Corrosion- and Heat-Resistant, Sheet, Strip and Plate

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

Grade Belongs to the Industry - Sheet, Strip and Plate

Chemical Composition			Heat Treatment	
Carbon	C %	0.100 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.500 max.		
Chromium	Cr %	19.000 - 23.000		
Sulphur	S %	0.015 max.		
Copper	Cu %	0.750 max.		
Aluminium	Al %	0.150 - 0.600		
Titanium	Ti %	0.150 - 0.600		
Nickel	Ni %	30.000 - 35.000		
Iron	Fe %	39.500 min.		
-	-	-	Mechanical Properties Tensile Strength in Mpa 448 min. Yield Strength in Mpa 172 min. Elongation in % 30 min. Reduction of Area in % - Hardness in BHN - Impact in Joule -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Incoloy Alloy 800	Gravity	India	Sheet, Strip and Plate
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Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email 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.