

# 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		
Carbon	C %	0.100 max.
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.
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
As-Cast or Annealing or Age Hardning	

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	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Incoloy Alloy 800	Gravity	India	Sheet, Strip and Plate
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)



+91-99090 45075



[info@icastllp.com](mailto:info@icastllp.com)



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India