

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	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Incoloy Alloy 800	Gravity	India	Sheet, Strip and Plate
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-	-	-	-
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-	-	-	-
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Customer Care: +91-99090 45075 Email: info@icastllp.com