

Material: SAE 5879

Standard Specification for Nickel and Nickel-Related Alloys

Group: Non-Ferrous Nickel Alloys

Sub Group: SAE 5879 Nickel and Nickel-Related Alloys

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

Grade Belongs to the Industry: Sheet, Strip and Foil

Chemical Composition			Heat Treatment	
Carbon	C %	0.030 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.150 max.		
Manganese	Mn %	0.500 max.		
Chromium	Cr %	20.000 - 23.000		
Molybdenum	Mo %	8.000 - 10.000		
Iron	Fe %	5.000 max.		
Aluminium	Al %	0.400 max.		
Cobalt	Co %	1.000 max.		
Phosphorus	P %	0.015 max.		
Sulphur	S %	0.015 max.		
			Mechanical Properties	
Titanium	Ti %	0.400 max.	Tensile Strength in Mpa	827 min.
Niobium	Nb %	3.150-4.150	Yield Strength in Mpa	417 min.
Nitrogen	N %	0.020 max.	Elongation in %	40 min.
Nickel	Ni %	Balance	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Inconel 625 LCF	Gravity	India	Sheet, Strip and Foil
N06626	UNS	USA	Sheet, Strip and Foil
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
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