



## Material - SAE Inconel 625

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

**Group - Non-Ferrous Nickel Alloys**

**Sub Group - SAE Inconel 625 Nickel 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 %	0.500 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.		
Niobium	Nb %	3.150 - 4.150		
Phosphorus	P %	0.015 max.		
Sulphur	S %	0.015 max.		
Cobalt	Co %	0.100 max.	Mechanical Properties	
Titanium	Ti %	0.400 max.	Tensile Strength in Mpa	689 - 1104
Nickel	Ni %	Balance	Yield Strength in Mpa	276 - 759
-	-	-	Elongation in %	25 - 65
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	110 - 287
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
N06250	UNS	USA	Sheet, Strip and Plate
B622 N06250	ASTM	USA	Pipe and Tube
SB-622 N06250	ASME	USA	Pipe and Tube
F3056 N06625 CLASS A	ASTM	USA	Pipe and Tube
F3056 N06625 CLASS B	ASTM	USA	Pipe and Tube
F3056 N06625 CLASS C	ASTM	USA	Pipe and Tube
SIMALLOY 625	SAE	USA	Pipe and 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)**

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