

# Material: SAE SIMALLOY 625

## Standard Specification for Nickel and Nickel-Related Alloys

**Group:** Non-Ferrous Nickel Alloys

**Sub Group:** SAE SIMALLOY 625 Nickel and Nickel-Related Alloys

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

**Grade Belongs to the Industry:** Pipe and Tube

Chemical Composition		
Carbon	C %	0.100 max.
Silicon	Si %	0.500 max.
Manganese	Mn %	0.500 max.
Chromium	Cr %	21.500 max.
Molybdenum	Mo %	9.000 max.
Aluminium	Al %	0.400 max.
Cobalt	Co %	1.000 max.
Iron	Fe %	5.000 max.
Titanium	Ti %	0.400 max.
Ni + Co	Ni% + Co%	68.000 min.
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Annealing or Age Hardning

Mechanical Properties	
Tensile Strength in Mpa	724 - 1104
Yield Strength in Mpa	290 - 759
Elongation in %	30 - 65
Reduction of Area in %	-
Hardness in BHN	110 - 240
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Inconel 625	SAE	USA	Sheet, Strip and Plate
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

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