



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			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 %	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.		
-	-	-	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

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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