



## Material - ASTM F3056 N06625 CLASS A

### Standard Specification for Additive Manufacturing Nickel Alloy

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM F3056 N06625 CLASS A Additive Manufacturing Nickel Alloy

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 %	20.000 - 23.000		
Molybdenum	Mo %	8.000 - 10.000		
Phosphorus	P %	0.015 max.		
Sulphur	S %	0.015 max.		
Titanium	Ti %	0.400 max.		
Cobalt	Co %	1.000 max.		
Aluminium	Al %	0.400 max.		
Iron	Fe %	5.000 max.	Mechanical Properties	
Niobium	Nb %	3.150 - 4.150	Tensile Strength in Mpa	485 min.
Nickel	Ni %	Balance	Yield Strength in Mpa	275 min.
-	-	-	Elongation in %	30 min.
-	-	-	Reduction of Area in %	30 min.
-	-	-	Hardness in BHN	-
-	-	-	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 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)**

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.