



## Material - ASTM F2281 601

**Standard Specification for Stainless Steel and Nickel Alloy Bolts, Hex Cap Screws and Studs, for Heat Resistance and High Temperature Applications**

**Group - Non-Ferrous Nickel Alloys**

**Sub Group - ASTM F2281 601 Stainless Steel and Nickel Alloy Bolts, Hex Cap Screws and Studs, for Heat Resistance and High Temperature Applications**

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

**Grade Belongs to the Industry - Bolts, Hex Cap Screws and Studs**

Chemical Composition			Heat Treatment	
Carbon	C %	0.100 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.500 max.		
Manganese	Mn %	1.000 max.		
Chromium	Cr %	21.000 - 25.000		
Aluminium	Al %	1.000 - 1.700		
Copper	Cu %	1.000 max.		
Sulphur	S %	0.015 max.		
Nickel	Ni %	58.000 - 63.000		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	517 min.
-	-	-	Yield Strength in Mpa	172 min.
-	-	-	Elongation in %	35 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	63 - 85
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Inconel 601	SAE	USA	Plate, Sheet and Strip
N06601	UNS	USA	Plate, Sheet and Strip
NiCr23Fe15Al	JIS	Japan	Plate, Sheet and Strip
NW6601	JIS	Japan	Plate, Sheet and Strip
NiCr23Fe15Al	KS	Korea	Wire
NW6601	KS	Korea	Wire
B516 N06601	ASTM	USA	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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