

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

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