

# Material: UNS N06601

## Standard Specification for Nickel and Nickel-Related Alloys

**Group:** Non-Ferrous Nickel Alloys

**Sub Group:** UNS N06601 Nickel and Nickel-Related Alloys

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

**Grade Belongs to the Industry:** Plate, Sheet and Strip

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	586 - 759
-	-	-	Yield Strength in Mpa	193 - 345
-	-	-	Elongation in %	45 - 58
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	115 - 160
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Inconel 601	SAE	USA	heet, Strip, Plate, Round bar, Flat bar, Forging stock, Hexa
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
F2281 601	ASTM	USA	Bolts, Hex Cap Screws and Studs

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