

## Material: UNS N09706

### Standard Specification for Nickel Alloy, Corrosion and Heat-Resistant, Bars, Forgings, Flash Welded Rings and Forging Stock

**Group:** Non-Ferrous Nickel Alloys

**Sub Group:** UNS N09706 Nickel Alloy, Corrosion and Heat-Resistant, Bars, Forgings, Flash Welded Rings and

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

**Grade Belongs to the Industry:** Bar, Ring and Forging Stock

Chemical Composition			Heat Treatment	
Carbon	C %	0.060 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.350 max.		
Manganese	Mn %	0.350 max.		
Chromium	Cr %	14.500 - 17.500		
Copper	Cu %	0.300 max.		
Sulphur	S %	0.015 max.		
Aluminium	Al %	0.400 max.		
Niobium	Nb %	2.500 - 3.300		
Titanium	Ti %	1.500 - 2.000		
Phosphorus	P %	0.020 max.		
Boron	B %	0.006 max.	<b>Mechanical Properties</b> Tensile Strength in Mpa 896 min. Yield Strength in Mpa 552 min. Elongation in % 12 min. Reduction of Area in % 15 min. Hardness in HRC 25 min. Impact in Joule -	
Nickel	Ni %	39.000 - 44.000		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Inconel 706	SAE	USA	Bar, Ring and Forging Stock
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