

## 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		
Carbon	C %	0.060 max.
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.
Nickel	Ni %	39.000 - 44.000
Iron	Fe %	Balance
-	-	-
-	-	-

Heat Treatment	
As-Cast or Annealing or Age Hardning	

Mechanical Properties	
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	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Inconel 706	SAE	USA	Bar, Ring and Forging Stock
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-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
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Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)



+91-99090 45075



[info@icastllp.com](mailto:info@icastllp.com)



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India