

Material: SAE Inconel 706

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

Group: Non-Ferrous Nickel Alloys

Sub Group: SAE Inconel 706 Nickel Alloy, Corrosion and Heat-Resistant, Bars, Forgings, Flash Welded Rings and Forging Stock

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.		
			Mechanical Properties	
Boron	B %	0.006 max.	Tensile Strength in Mpa	896 min.
Tantalum	Ta %	0.050 max.	Yield Strength in Mpa	552 min.
Nickel	Ni %	39.000 - 44.000	Elongation in %	12 min.
Iron	Fe %	Balance	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
N09706	UNS	USA	Bar, Ring and Forging Stock
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