



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

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.		
Boron	B %	0.006 max.	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 -	
Tantalum	Ta %	0.050 max.		
Nickel	Ni %	39.000 - 44.000		
Iron	Fe %	Balance		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
N09706	UNS	USA	Bar, Ring and Forging Stock
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-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

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