

Material: SAE Inconel 751

Standard Specification for Nickel and Nickel-Related Alloys

Group: Non-Ferrous Nickel Alloys

Sub Group: SAE Inconel 751 Nickel and Nickel-Related Alloys

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

Grade Belongs to the Industry: Round Bar

Chemical Composition			Heat Treatment	
Carbon	C %	0.030 - 0.100	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.500 max.		
Manganese	Mn %	1.000 max.		
Chromium	Cr %	14.000 - 17.000		
Aluminium	Al %	1.100 - 1.350		
Copper	Cu %	0.500 max.		
Sulphur	S %	0.015 max.		
Nb + Ta	Nb% + Ta%	0.700 - 1.200		
Phosphorus	P %	0.015 max.		
Iron	Fe %	5.000 - 9.000	Mechanical Properties	
Molybdenum	Mo %	0.500 max.	Tensile Strength in Mpa	1100 - 1300
Titanium	Ti %	2.000 - 2.600	Yield Strength in Mpa	630 - 850
Boron	B %	0.0015 - 0.009	Elongation in %	12 - 33
Cobalt	Co %	1.000 max.	Reduction of Area in %	20 - 32
Nickel	Ni %	Balance	Hardness in HRC	32 - 40
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
N07751	UNS	USA	Round Bar
NiCr 15 Fe 7 TiAl	ISO	International	Round Bar
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-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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