

Material: UNS N03301

Standard Specification for Nickel Alloy for Special Metals Corporation

Group: Non-Ferrous Nickel Alloys

Sub Group: UNS N03301 Nickel Alloy for Special Metals Corporation

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

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.300 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	1.000 max.		
Manganese	Mn %	0.500 max.		
Copper	Cu %	0.250 max.		
Sulphur	S %	0.010 max.		
Aluminium	Al %	4.000 - 4.750		
Iron	Fe %	0.600 max.		
Titanium	Ti %	0.250 - 1.000		
Nickel	Ni %	93.000 min.		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	620 - 1655
-	-	-	Yield Strength in Mpa	205 - 1210
-	-	-	Elongation in %	2 - 55
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	135 - 380
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
DuraNickel 301	Gravity	India	Casting
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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