

Material: DIN 2.4634

Standard Specification for Nickel and Nickel Alloy Casting

Group: Non-Ferrous Nickel Alloys

Sub Group: DIN 2.4634 Nickel and Nickel Alloy Casting

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

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.120 - 0.170	As-Cast or Annealing or Age Hardning	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Chromium	Cr %	14.000 - 15.700		
Aluminium	Al %	4.500 - 4.900		
Copper	Cu %	0.200 max.		
Cobalt	Co %	18.000 - 22.000		
Boron	B %	0.003 - 0.010		
Iron	Fe %	1.000 max.		
Molybdenum	Mo %	4.500 - 5.500		
Phosphorus	P %	0.045 max.	Mechanical Properties	
Sulphur	S %	0.015 max.	Tensile Strength in Mpa	986 min.
Titanium	Ti %	0.900 - 1.500	Yield Strength in Mpa	800 min.
Zirconium	Zr %	0.150 max.	Elongation in %	7 min.
Nickel	Ni %	Balance	Reduction of Area in %	7 min.
			Hardness in BHN	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
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