

Material: ISO E Ni 6082

Standard Specification for Nickel and Nickel Alloy Casting

Group: Non-Ferrous Nickel Alloys

Sub Group: ISO E Ni 6082 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 %	0.100 max.	As-Cast or Annealing or Age Hardening	
Silicon	Si %	0.800 max.		
Manganese	Mn %	2.000 - 6.000		
Chromium	Cr %	18.000 - 22.000		
Niobium	Nb %	1.500 - 3.000		
Copper	Cu %	0.500 max.		
Iron	Fe %	4.000 max.		
Molybdenum	Mo %	2.000 max.		
Sulphur	S %	0.015 max.		
Titanium	Ti %	0.500 max.		
Other	Ot%	0.500 max.	Mechanical Properties	
Ni + Co	Ni% + Co%	63.000 min.	Tensile Strength in Mpa	600 min.
-	-	-	Yield Strength in Mpa	360 min.
-	-	-	Elongation in %	25 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	60 @RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
2.4648	DIN	Germany	Casting
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