

Material: ISO E Ni 8165

Standard Specification for Nickel and Nickel Alloy Casting

Group: Non-Ferrous Nickel Alloys

Sub Group: ISO E Ni 8165 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 %	0.030 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.700 max.		
Manganese	Mn %	1.000 - 3.000		
Chromium	Cr %	23.000 - 27.000		
Aluminium	Al %	0.100 max.		
Copper	Cu %	1.500 - 3.000		
Iron	Fe %	30.000 max.		
Molybdenum	Mo %	3.500 - 7.500		
Sulphur	S %	0.015 max.	Mechanical Properties	
Titanium	Ti %	1.000 max.	Tensile Strength in Mpa	550 min.
Other	Ot%	0.500 max.	Yield Strength in Mpa	240 min.
Nickel	Ni %	37.000 - 42.000	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
2.4652	DIN	International	Casting
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-	-	-	-
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Customer Care: +91-99090 45075 Email: info@icastllp.com