

Material: DIN G-Ni90Si

Standard Specification for Nickel and Nickel-Copper Alloy Casting

Group: Non-Ferrous Nickel Alloys

Sub Group: DIN G-Ni90Si Nickel and Nickel-Copper 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 %	1.000 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	5.500 - 6.500		
Manganese	Mn %	1.500 max.		
Copper	Cu %	1.200 max.		
Iron	Fe %	1.000 max.		
Other	Ot%	0.200 max.		
Ni + Co	Ni% + Co%	90.000 min.		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
-	-	-	Tensile Strength in Mpa	500 min.
-	-	-	Yield Strength in Mpa	350 min.
-	-	-	Elongation in %	3 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HRB	180 min.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
2.418	DIN	Germany	Casting
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Customer Care: +91-99090 45075 Email: info@icastllp.com