

Material: DIN 2.4647

Standard Specification for Nickel and Chromium Alloy Casting

Group: Non-Ferrous Nickel Alloys

Sub Group: DIN 2.4647 Nickel and Chromium 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 %	0.200 - 0.400	As-Cast or Annealing or Age Hardening	
Silicon	Si %	0.500 max.		
Manganese	Mn %	0.100 max.		
Chromium	Cr %	24.000 - 26.000		
Aluminium	Al %	2.400 - 3.000		
Copper	Cu %	0.150 max.		
Iron	Fe %	8.000 - 11.000		
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.015 max.		
Titanium	Ti %	0.100 - 0.250		
			Mechanical Properties	
Yttrium	Y %	0.050 - 0.150	Tensile Strength in Mpa	680 min.
Zirconium	Zr %	0.010 - 0.100	Yield Strength in Mpa	270 min.
Nickel	Ni %	Balance	Elongation in %	30 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	220 max.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
NiCr25FeAlYC	DIN	Germany	Casting
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-	-	-	-
-	-	-	-
-	-	-	-
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