

Material: DIN 2.4851

Standard Specification for Nickel and Chromium Alloy Casting

Group: Non-Ferrous Nickel Alloys

Sub Group: DIN 2.4851 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 %	0.100 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.500 max.		
Manganese	Mn %	1.000 max.		
Chromium	Cr %	21.000 - 25.000		
Copper	Cu %	0.500 max.		
Cobalt	Co %	1.500 max.		
Aluminium	Al %	1.000 - 1.700		
Boron	B %	0.006 max.		
Iron	Fe %	18.000 max.		
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.015 max.	Mechanical Properties	
Titanium	Ti %	0.500 max.	Tensile Strength in Mpa	550 - 750
Nickel	Ni %	58.000 - 63.000	Yield Strength in Mpa	205 min.
-	-	-	Elongation in %	20 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	220 max.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
NiCr23Fe	DIN	Germany	Casting
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-	-	-	-
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-	-	-	-
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