

Material: DIN 2.4811

Standard Specification for Nickel and Nickel Alloy Forgings

Group: Non-Ferrous Nickel Alloys

Sub Group: DIN 2.4811 Nickel and Nickel Alloy Forgings

Application: Intended for Valve, Pump, General Engineering, Automotive and other Industries

Grade Belongs to the Industry: Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.030 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.050 max.		
Manganese	Mn %	0.800 max.		
Chromium	Cr %	19.000 - 21.000		
Cobalt	Co %	2.500 max.		
Iron	Fe %	2.500 max.		
Copper	Cu %	0.500 max.		
Molybdenum	Mo %	14.000 - 17.000		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.015 max.		
			Mechanical Properties	
Vanadium	V %	0.350 max.	Tensile Strength in Mpa	700 min.
Nickel	Ni %	58.000 min.	Yield Strength in Mpa	310 min.
-	-	-	Elongation in %	30 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	260 max.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
NiCr20Mo15	DIN	Germany	Forging
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-	-	-	-
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-	-	-	-
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