

# 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		
Carbon	C %	0.030 max.
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.
Vanadium	V %	0.350 max.
Nickel	Ni %	58.000 min.
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Annealing or Age Hardning

Mechanical Properties	
Tensile Strength in Mpa	700 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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