

Material: DIN 2.4650

Standard Specification for Nickel, Molybdenum and Chromium Alloy Casting

Group: Non-Ferrous Nickel Alloys

Sub Group: DIN 2.4650 Nickel, Molybdenum 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 %	0.040 - 0.080	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.400 max.		
Manganese	Mn %	0.600 max.		
Chromium	Cr %	19.000 - 21.000		
Aluminium	Al %	0.300 - 0.600		
Al + Ti	Al % + Ti %	2.400 - 2.800		
Boron	B %	0.005 max.		
Cobalt	Co %	19.000 - 21.000		
Copper	Cu %	0.200 max.		
Iron	Fe %	0.700 max.		
Molybdenum	Mo %	5.600 - 6.100	Mechanical Properties	
Phosphorus	P %	0.020 max.	Tensile Strength in Mpa	540 min.
Sulphur	S %	0.015 max.	Yield Strength in Mpa	400 min.
Titanium	Ti %	1.900 - 2.400	Elongation in %	12 min.
Nickel	Ni %	Balance	Reduction of Area in %	-
			Hardness in HB	230 - 250
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
NiCo20Cr20MoTi	DIN	Germany	Casting
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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