



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 Tensile Strength in Mpa 540 min. Yield Strength in Mpa 400 min. Elongation in % 12 min. Reduction of Area in % - Hardness in HB 230 - 250 Impact in Joule -	
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.015 max.		
Titanium	Ti %	1.900 - 2.400		
Nickel	Ni %	Balance		

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

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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