



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - DIN NiCo20Cr20MoTi

Standard Specification for Nickel, Molybdenum and Chromium Alloy Casting

Group - Non-Ferrous Nickel Alloys

Sub Group - DIN NiCo20Cr20MoTi 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
2.4650	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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

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