

Material: DIN NiCr25Co20TiMo

Standard Specification for Nickel and Nickel Alloy Casting

Group: Non-Ferrous Nickel Alloys

Sub Group: DIN NiCr25Co20TiMo Nickel and Nickel Alloy Casting

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

Grade Belongs to the Industry: Casting

Chemical Composition			Chemical Composition		
Carbon	C %	0.030 - 0.070	Zirconium	Zr %	0.030 - 0.070
Silicon	Si %	0.500 max.	Nickel	Ni %	Balance
Manganese	Mn %	0.500 max.	-	-	-
Chromium	Cr %	23.000 - 25.000	-	-	-
Copper	Cu %	0.200 max.	-	-	-
Cobalt	Co %	19.000 - 21.000	Heat Treatment		
Aluminium	Al %	1.200 - 1.600	As-Cast or Annealing or Age Hardning		
Boron	B %	0.010 - 0.015	Mechanical Properties		
Iron	Fe %	1.000 max.	Tensile Strength in Mpa	1080 min.	
Molybdenum	Mo %	1.000 - 2.000	Yield Strength in Mpa	650 min.	
Nb + Ta	Nb% + Ta%	0.700 - 1.200	Elongation in %	12 min.	
Phosphorus	P %	0.010 max.	Reduction of Area in %	-	
Sulphur	S %	0.007 max.	Hardness in BHN	-	
Tantalum	Ta %	0.050 max.	Impact in Joule	-	
Titanium	Ti %	2.800 - 3.200			

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
2.4878	DIN	Germany	Casting
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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