

Material: DIN NiCr20Co13Mo4Ti3Al

Standard Specification for Nickel and Nickel Alloy Casting

Group: Non-Ferrous Nickel Alloys

Sub Group: DIN NiCr20Co13Mo4Ti3Al Nickel and Nickel 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 %	0.020 - 0.100	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.150 max.		
Manganese	Mn %	1.000 max.		
Chromium	Cr %	18.000 - 21.000		
Aluminium	Al %	1.200 - 1.600		
Boron	B %	0.003 - 0.010		
Cobalt	Co %	12.000 - 15.000		
Copper	Cu %	0.100 max.		
Iron	Fe %	2.000 max.		
Molybdenum	Mo %	3.500 - 5.000		
Phosphorus	P %	0.015 max.	Mechanical Properties	
Sulphur	S %	0.015 max.	Tensile Strength in Mpa	1100 min.
Titanium	Ti %	2.800 - 3.300	Yield Strength in Mpa	760 min.
Zirconium	Zr %	0.020 - 0.080	Elongation in %	15 min.
Nickel	Ni %	Balance	Reduction of Area in %	18 min.
			Hardness in HV	320 - 410
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
2.4654	DIN	International	Casting
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