

Material: DIN NiCr21Mo16W

Standard Specification for Nickel and Nickel Alloy Casting

Group: Non-Ferrous Nickel Alloys

Sub Group: DIN NiCr21Mo16W 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 %	0.010 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.080 max.		
Manganese	Mn %	0.750 max.		
Chromium	Cr %	19.000 - 23.000		
Cobalt	Co %	1.000 max.		
Aluminium	Al %	0.500 max.		
Molybdenum	Mo %	15.000 - 17.000		
Iron	Fe %	2.000 max.	Mechanical Properties Tensile Strength in Mpa 690 min. Yield Strength in Mpa 310 min. Elongation in % 40 min. Reduction of Area in % - Hardness in BHN 240 max. Impact in Joule -	
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.015 max.		
Titanium	Ti %	0.020 - 0.250		
Vanadium	V %	0.200 max.		
Tungsten	W %	3.000 - 4.400		
Nickel	Ni %	Balance		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
NiCr21Mo16W	DIN	Germany	Casting
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Customer Care: +91-99090 45075 Email: info@icastllp.com