

Material: DIN 2.4673

Standard Specification for Nickel-Base Alloy NiCr23Co12Mo Rod and Forging

Group: Non-Ferrous Nickel Alloys

Sub Group: DIN 2.4673 Nickel-Base Alloy NiCr23Co12Mo Rod and Forging

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

Grade Belongs to the Industry: Rod and Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.050 - 0.080	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.300 max.		
Manganese	Mn %	0.500 max.		
Chromium	Cr %	21.000 - 23.000		
Cobalt	Co %	11.000 - 13.000		
Aluminium	Al %	0.800 - 1.300		
Boron	B %	0.001 max.		
Molybdenum	Mo %	8.000 - 10.000		
Niobium	Nb %	0.600 max.	Mechanical Properties	
Phosphorus	P %	0.012 max.	Tensile Strength in Mpa	680 - 950
Sulphur	S %	0.008 max.	Yield Strength in Mpa	330 min.
Titanium	Ti %	0.250 - 0.500	Elongation in %	30 min.
Vanadium	V %	0.600 max.	Reduction of Area in %	-
Iron	Fe %	1.500 max.	Hardness in HV	350 max.
Nickel	Ni %	Balance	Impact in Joule	80 @RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
VDM alloy 617 B	Gravity	India	Pipe
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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Customer Care: +91-99090 45075 Email: info@icastllp.com