

Material: DIN 1.4500

Standard Specification for High alloyed NiCrMo stainless steel

Group: Ferrous Stainless Steel Alloys

Sub Group: DIN 1.4500 High alloyed NiCrMo stainless steel

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

Grade Belongs to the Industry: Casting

Chemical Composition		
Carbon	C %	0.080 max.
Silicon	Si %	1.500 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.045 max.
Sulphur	S %	0.030 max.
Chromium	Cr %	19.000 - 21.000
Nickel	Ni %	24.000 - 26.000
Molybdenum	Mo %	2.500 - 3.500
Copper	Cu %	1.500 - 2.500
Niobium	Nb %	8 X %C - 1.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
Solution Annealing	
Mechanical Properties	
Tensile Strength in Mpa	441.3 - 637.4
Yield Strength in Mpa	196.1 min.
Elongation in %	15 min.
Reduction of Area in %	-
Hardness in HB	130 - 180
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA-351 CN7M	ASME	USA	Casting
SCS 23	JIS	Japan	Centrifugal Cast, Steel, Pipes.
G X 5 NiCrCuMo 29-21	UNI	Italy	Casting
F.8417	UNE	Spain	Casting
A744 CN7M	ASTM	USA	Casting
A743 CN7M	ASTM	USA	Casting
A351 CN7M	ASTM	USA	Casting

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