

## 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			Heat Treatment	
Carbon	C %	0.080 max.	Solution Annealing	
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	<b>Mechanical Properties</b> 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 -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
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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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