

Material: DIN 1.4448

Standard Specification for High Alloyed CrNiMo Stainless Steel

Group: Ferrous Stainless Steel Alloys

Sub Group: DIN 1.4448 High Alloyed CrNiMo 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 %	0.070 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.045 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	16.000 - 18.000		
Nickel	Ni %	12.500 - 14.500		
Molybdenum	Mo %	4.000 - 5.000		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	392.3 - 588.4
-	-	-	Yield Strength in Mpa	176.5 min.
-	-	-	Elongation in %	15 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	130 - 180
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA-351 Grade CG8M	ASME	USA	Casting
317 C 16	BS	British	Casting
389 G X 8 CrNiMo 19-11-4	SFS	Finland	Casting
J93000	UNS	USA	Casting
A743 CG8M	ASTM	USA	Casting
A744 CG8M	ASTM	USA	Casting
A351 CG6M	ASTM	USA	Casting

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