

# 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		
Carbon	C %	0.070 max.
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
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
Solution Annealing	

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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