

## Material: DIN X2CrNiMo13-4

### Standard Specification for Stainless Steels for Rolled and Forged Products

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** DIN X2CrNiMo13-4 Stainless Steels for Rolled and Forged Products

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

**Grade Belongs to the Industry:** Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.030 max.	Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	12.000 - 13.500		
Molybdenum	Mo %	0.400 - 0.700		
Nickel	Ni %	3.500 - 4.500		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	680 - 880
-	-	-	Yield Strength in Mpa	520 min.
-	-	-	Elongation in %	15 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	255 max.
-	-	-	Impact in Joule	70 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.6982	EN	European Union	Casting
1.6982	DIN	Germany	Casting
1.6982	DIN	Germany	Casting
GX3 CrNi 13-4	UNI	Italy	Casting
GX3 CrNi 13-4	DIN	Germany	Casting
GX3 CrNi 13-4	EN	European Union	Casting
GX3 CrNi 13-4	AFNOR NF	France	Casting

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