

## Material: DIN X 7 CrNi 23-14

### Standard Specification for Heat Resisting Rolled and Forged Steels

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** DIN X 7 CrNi 23-14 Heat Resisting Rolled and Forged Steels

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

**Grade Belongs to the Industry:** Rolled and Forged Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.080 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 %	21.000 - 23.000		
Nickel	Ni %	12.000 - 15.000		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	500 - 750
-	-	-	Yield Strength in Mpa	210 min.
-	-	-	Elongation in %	26 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	192 J @ RT
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA-351 Grade CH8	ASME	USA	Casting
309S	AISI	USA	Bar, Wire, Strip, Plat, Sheet and Forging
X 12 CrNi 23-13	EN	European Union	Bar, Wire, Strip, Plat, Sheet and Forging
X 15 CrNi 24-13	AFNOR NF	France	Rolled Tubes for Pressure Service
SUS 309S	JIS	Japan	Wire, Rods for Wedding Material
X 6 CrNi 23-14	UNI	Italy	Plate, Sheet, Strip and Coil
A351 CH8	ASTM	USA	Casting

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