

Material: EN X 12 CrNi 23-13

Standard Specification for Austenitic Heat Resisting Steel

Group: Ferrous Stainless Steel Alloys

Sub Group: EN X 12 CrNi 23-13 Austenitic Heat Resisting Steel

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

Grade Belongs to the Industry: Bar Wire, Strip, Plate, Sheet, and Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.150 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.045 max.		
Sulphur	S %	0.150 max.		
Chromium	Cr %	22.000 - 24.000		
Nickel	Ni %	12.000 - 14.000		
Nitrogen	N %	0.110 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	500 - 700
-	-	-	Yield Strength in Mpa	210 min.
-	-	-	Elongation in %	33 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
X 7 CrNi 23-14	DIN	Germany	Rolled and Forged Steel
309S	AISI	USA	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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Customer Care: +91-99090 45075 Email: info@icastllp.com