

# Material: AFNOR NF X 15 CrNi 24-13

## Standard Specification for Austenitic Stainless and Austenitic Ferritic Steel Rolled Tubes for Pressure Service

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** AFNOR NF X 15 CrNi 24-13 Austenitic Stainless and Austenitic Ferritic Steel Rolled Tubes for Pressure Service

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

**Grade Belongs to the Industry:** Rolled Tubes for Pressure Service

Chemical Composition		
Carbon	C %	0.150 max.
Silicon	Si %	0.750 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.035 max.
Sulphur	S %	0.015 max.
Chromium	Cr %	22.000 - 24.000
Nickel	Ni %	12.000 - 14.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
Solution Annealing	
Mechanical Properties	
Tensile Strength in Mpa	540 - 750
Yield Strength in Mpa	240 min.
Elongation in %	30 min.
Reduction of Area in %	-
Hardness in BHN	-
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
X 12 CrNi 23-13	EN	European Union	Bar, Wire, Strip, Plat, Sheet and Forging
309S	AISI	USA	Bar, Wire, Strip, Plat, Sheet and Forging
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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