

## Material: DIN X 8 CrNiAlTi 20-20

### Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** DIN X 8 CrNiAlTi 20-20 Chromium and Chromium-Nickel Stainless Steel for Pressure Vessels and for General Applications

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

**Grade Belongs to the Industry:** Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.080 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	18.000 - 22.000		
Nickel	Ni %	18.000 - 22.000		
Aluminium	Al %	0.600 max.		
Titanium	Ti %	0.600 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	-
-	-	-	Yield Strength in Mpa	-
-	-	-	Elongation in %	-
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S33400	ASTM	USA	Steel, Plate, Sheet and Strip
S22400	UNS	USA	Steel
A959 Type 334	ASTM	USA	Steel
1.4847	DIN	Germany	Steel
1.4847	EN	European Union	Steel
-	-	-	-
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