

# Material: ASME SA-312 UNS S35315

## 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:** ASME SA-312 UNS S35315 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 and Pipe

Chemical Composition		
Carbon	C %	0.040 - 0.080
Silicon	Si %	0.750 max.
Manganese	Mn %	2.000 - 4.000
Phosphorus	P %	0.045 max.
Sulphur	S %	0.030 max.
Chromium	Cr %	24.000 - 26.000
Nickel	Ni %	34.000 - 36.000
Nitrogen	N %	0.120 - 0.180
Cerium	Ce %	0.030 - 0.080
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	650 min.
Yield Strength in Mpa	270 min.
Elongation in %	25 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S35315	ASTM	USA	Steel, Plate, Sheet and Strip
S35315	UNS	USA	Steel
A167 S35315	ASTM	USA	Steel, Sheet, Plate and Strip
A312 S35315	ASTM	USA	Steel and Pipe
A959 S35315	ASTM	USA	Steel
SA-240 UNS S35135	ASME	USA	Steel
X 6 NiCrSiNCe 35 25	EN	European Union	Steel

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