

## Material: ASTM A240 UNS S34565

### 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:** ASTM A240 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, Plate, Sheet and Strip

Chemical Composition			Heat Treatment			
Carbon	C %	0.030 max.	Solution Annealing			
Silicon	Si %	1.000 max.				
Manganese	Mn %	5.000 - 7.000				
Phosphorus	P %	0.030 max.				
Sulphur	S %	0.010 max.				
Chromium	Cr %	23.000 - 25.000				
Nickel	Ni %	16.000 - 18.000				
Molybdenum	Mo %	4.000 - 5.000				
Nitrogen	N %	0.400 - 0.600				
Niobium	Nb %	0.100 max.				
Iron	Fe %	Balance	<b>Mechanical Properties</b>			
-	-	-			Tensile Strength in Mpa	795 min.
-	-	-			Yield Strength in Mpa	415 min.
-	-	-			Elongation in %	35 min.
-	-	-			Reduction of Area in %	-
-	-	-			Hardness in BHN	241 max.
-	-	-	Impact in Joule	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
S34565	UNS	USA	Steel
A167 S34565	ASTM	USA	Steel, Sheet, Plate and Strip
A213 S34565	ASTM	USA	Steel and Tube
A249 S34565	ASTM	USA	Steel and Tube
A276 S34565	ASTM	USA	Steel, Bar and Shape
A312 S34565	ASTM	USA	Steel and Pipe
A959 S34565	ASTM	USA	Steel

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