

# Material: 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:** UNS 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 %	0.030 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
A240 UNS S34565	ASTM	USA	Steel, Plate, Sheet and Strip
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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