

## Material: ASTM A 276 S32654

### 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 A 276 S32654 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, Bar and Shapes

Chemical Composition			Heat Treatment	
Carbon	C %	0.020 max.	Solution Annealing	
Silicon	Si %	0.500 max.		
Manganese	Mn %	2.000 - 4.000		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.005 max.		
Chromium	Cr %	24.000 - 25.000		
Molybdenum	Mo %	7.000 - 8.000		
Nickel	Ni %	21.000 - 23.000		
Copper	Cu %	0.300 - 0.600	Mechanical Properties	
Nitrogen	N %	0.450 - 0.550	Tensile Strength in Mpa	750 min.
Iron	Fe %	Balance	Yield Strength in Mpa	430 min.
-	-	-	Elongation in %	40 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	250 max.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S32654	ASTM	USA	Steel, Plate, Sheet and Strip
S32654	UNS	USA	Steel
A167 S32654	ASTM	USA	Steel, Sheet, Plate and Strip
A249 S32654	ASTM	USA	Steel and Tube
A269 S32654	ASTM	USA	Steel and Tube
A312 S32654	ASTM	USA	Steel and Pipe
A959 S32654	ASTM	USA	Steel

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