

## Material: ASTM A240 UNS S24000

### 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 %	0.080 max.	Solution Annealing	
Silicon	Si %	0.750 max.		
Manganese	Mn %	11.500 - 14.500		
Phosphorus	P %	0.060 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	17.000 - 19.000		
Nickel	Ni %	2.300 - 3.700		
Nitrogen	N %	0.200 - 0.400		
Iron	Fe %	Balance		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	690 min.
			Yield Strength in Mpa	415 min.
			Elongation in %	40 min.
			Reduction of Area in %	-
			Hardness in HB	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
S24000	UNS	USA	Steel and Pipe
A276 XM-29	ASTM	USA	Steel, Bar and Shape
XM-29	SAE	USA	Steel
A479 XM-29	ASTM	USA	Steel and Bar
A358 XM-29	ASTM	USA	Steel and Pipe
A314 XM-29	ASTM	USA	Steel, Rolling and Forging
A580 Type XM-29	ASTM	USA	Steel and Wire

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