

## Material: ASTM A240 UNS S32520

### 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 %	0.800 max.		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	24.000 - 26.000		
Nickel	Ni %	5.500 - 8.000		
Molybdenum	Mo %	3.000 - 4.000		
Nitrogen	N %	0.200 - 0.350		
Copper	Cu %	0.500 - 2.000		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	770 min.
			Yield Strength in Mpa	550 min.
			Elongation in %	25 min.
			Reduction of Area in %	-
			Hardness in BHN	310 max.
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
S32520	UNS	USA	Steel
A789 S32520	ASTM	USA	Steel and Tube
A790 S32520	ASTM	USA	Steel and Pipe
A928 S32520	ASTM	USA	Steel and Pipe
A959 S32520	ASTM	USA	Steel
S32550	UNS	USA	Steel
A240 S32550	ASTM	USA	Steel, Sheet, Plate and Strip

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