

## Material: UNS S32550

### 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 %	0.040 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	24.000 - 27.000		
Nickel	Ni %	4.500 - 6.500		
Molybdenum	Mo %	2.900 - 3.900		
Nitrogen	N %	0.100 - 0.250		
Copper	Cu %	1.500 - 2.500		
Iron	Fe %	Balance	<b>Mechanical Properties</b> Tensile Strength in Mpa   760 min. Yield Strength in Mpa   550 min. Elongation in %   15 min. Reduction of Area in %   - Hardness in BHN   302 max. Impact in Joule   -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S32520	ASTM	USA	Steel, Plate, Sheet and Strip
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
A240 S32550	ASTM	USA	Steel, Sheet, Plate and Strip

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