

## Material: ASTM A240 UNS S32506

### 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 %	0.900 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	24.000 - 26.000		
Nickel	Ni %	5.500 - 7.200		
Molybdenum	Mo %	3.000 - 3.500		
Nitrogen	N %	0.080 - 0.200		
Tungsten	W %	0.050 - 0.300		
Iron	Fe %	Balance	<b>Mechanical Properties</b> Tensile Strength in Mpa   620 min. Yield Strength in Mpa   450 min. Elongation in %   18 min. Reduction of Area in %   - Hardness in BHN   302 max. Impact in Joule   -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
S32506	UNS	USA	Steel
A511 S32506	ASTM	USA	Steel
A790 S32506	ASTM	USA	Steel
A928 S32506	ASTM	USA	Steel
A959 S32506	ASTM	USA	Steel
SA-182 F 67	ASME	USA	Steel
SA-240 S32506	ASME	USA	Steel

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