

## Material: UNS S32050

### 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 S32050 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:** Plate, Sheet and Strip

Chemical Composition			Heat Treatment	
Carbon	C %	0.030 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	22.000 - 24.000		
Nickel	Ni %	20.000 - 23.000		
Molybdenum	Mo %	6.000 - 6.800	Mechanical Properties	
Nitrogen	N %	0.210 - 0.320	Tensile Strength in Mpa	675 min.
Copper	Cu %	0.400 max.	Yield Strength in Mpa	330 min.
Iron	Fe %	Balance	Elongation in %	40 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HRC	100 max.
-	-	-	Impact in Joule	-

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
A240 UNS S32050	ASTM	USA	Steel, Plate, Sheet and Strip	
A240 S32050	ASTM	USA	Plate, Sheet and Strip	
A213 S32050	ASTM	USA	Tubes for Superheaters and Heat Exchanges	
A 959 S32050	ASTM	USA	Plate, Sheet and Strip	
A358 S32050	ASTM	USA	Pipes	
A249 S32050	ASTM	USA	Tubes for Superheaters and Heat Exchanges	
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