

## Material - ASTM A 959 S21800

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 A 959 S21800 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 %	0.100 max.		
Silicon	Si %	3.500 - 4.500		
Manganese	Mn %	7.000 - 9.000		
Phosphorus	Р%	0.060 max.	Solution Annealing	
Sulphur	S %	0.030 max.		
Chromium	Cr %	16.000 - 18.000		
Nickel	Ni %	8.000 - 9.000		
Nitrogen	N %	0.080 - 0.180		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	655 min.
-	-	-	Yield Strength in Mpa	345 min.
-	-	-	Elongation in %	35 min.
-	-	-	Reduction of Area in %	55 min.
-	-	-	Hardne <mark>ss in BHN</mark>	-
-	-	-	Impac <mark>t in Joule</mark>	-

Cross Reference Table				
Material	Standard	Country Grade Belong to the Industry		
A240 UNS S21800	ASTM	USA	Steel, Plate, Sheet and Strip	
S21800	UNS	USA	Steel	
A276 S21800	ASTM	USA	Steel, Bar and Shapes	
A479 Type S21800	ASTM	USA	Steel, Bar and Shapes	
A580 S21800	ASTM	USA	Steel and Wire	
SA-276 S21800	ASME	USA	Steel, Bar and Shapes	
SA-479 Type S21800	ASME	USA	Steel, Bar and Shapes	

## Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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