

# Material - UNS S40977

## 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 %	0.030 max.	Annealing or Hardening + Tempering	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	10.500 - 12.500		
Nickel	Ni %	0.300 - 1.000		
Nitrogen	N %	0.030 max.		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa   450 min. Yield Strength in Mpa   280 min. Elongation in %   18 min. Reduction of Area in %   - Hardness in BHN   180 max. Impact in Joule   -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S40910	ASTM	USA	Steel, Plate, Sheet and Strip
S40910	UNS	USA	Steel
S40920	UNS	USA	Steel
S40930	UNS	USA	Steel
S40945	UNS	USA	Steel
S40975	UNS	USA	Steel
A959 S40975	UNS	USA	Steel

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**Customer Care:** +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)