

## Material - ASTM A 312 S33228

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 312 S33228 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 and Pipe

Chemical Composition			Heat Treatment	
Carbon	C %	0.040 - 0.080		
Silicon	Si %	0.300 max.		
Manganese	Mn %	1.000 max.	Solution Annealing	
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	26.000 - 28.000		
Nickel	Ni %	31.000 - 33.000		
Cerium	Ce %	0.050 - 0.100		
Niobium	Nb %	0.600 - 1.000	Mechanical Properties	
Aluminium	Al %	0.025 max.	Tensile Strength in Mpa	500 min.
Iron	Fe %	Balance	Yield Strength in Mpa	185 min.
-	-	-	Elongation in %	25 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impac <mark>t in Joule</mark>	-

Cross Reference Table					
Material	Standard	Country	Grade Belong to the Industry		
A240 UNS S33228	ASTM	USA	Steel, Plate, Sheet and Strip		
S33228	UNS	USA	Steel		
A167 S33228	ASTM	USA	Steel, Sheet, Plate and Strip		
A213 S33228	ASTM	USA	Steel and Tube		
A249 S33228	ASTM	USA	Steel and Tube		
A479 S33228	ASTM	USA	Steel and Bar		
A959 S33228	ASTM	USA	Steel		

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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