



Material - ASTM A 312 S31050

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 S31050 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 %	0.025 max.	Solution Annealing	
Silicon	Si %	0.400 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	24.000 - 26.000		
Molybdenum	Mo %	1.600 - 2.600		
Nickel	Ni %	20.500 - 23.500	Mechanical Properties	
Nitrogen	N %	0.090 - 0.150	Tensile Strength in Mpa	540 min.
Iron	Fe %	Balance	Yield Strength in Mpa	255 min.
-	-	-	Elongation in %	25 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S31050	ASTM	USA	Steel, Plate, Sheet and Strip
S31050	UNS	USA	Steel
A213 S31050	ASTM	USA	Steel and Tube
A249 S31050	ASTM	USA	Steel and Tube
A943 S31050	ASTM	USA	Steel and Pipe
SA-312 UNS S31050	ASME	USA	Steel and Pipe
A182 F 310MoLN	ASTM	USA	Steel, Pipe and Forging

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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