



## Material - UNS 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 - 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 %	0.020 max.	Solution Annealing	
Silicon	Si %	0.500 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.010 max.		
Chromium	Cr %	24.000 - 26.000		
Nickel	Ni %	20.500 - 23.500		
Molybdenum	Mo %	1.600 - 2.600		
Nitrogen	N %	0.090 - 0.150		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa      540 min. Yield Strength in Mpa      255 min. Elongation in %      25 min. Reduction of Area in %      - Hardness in BHN      217 max. Impact in Joule      -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S31050	ASTM	USA	Steel, Plate, Sheet and Strip
A213 S31050	ASTM	USA	Steel and Tube
A249 S31050	ASTM	USA	Steel and Tube
A312 S31050	ASTM	USA	Steel and Pipe
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](mailto:marketing@gravitycastindia.com)**

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