



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A240 UNS S31651

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 A240 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, Plate, Sheet and Strip

Chemical Composition			Heat Treatment	
Carbon	C %	0.080 max.	Solution Annealing	
Silicon	Si %	0.750 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.045 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	16.000 - 18.000		
Nickel	Ni %	10.000 - 14.000		
Molybdenum	Mo %	2.000 - 3.000		
Nitrogen	N %	0.100 - 0.160		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 550 min. Yield Strength in Mpa 240 min. Elongation in % 35 min. Reduction of Area in % - Hardness in BHN 217 max. Impact in Joule -	
-	-	-		
-	-	-		
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-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A743 CF3MN	ASTM	USA	Casting
316L	AISI	USA	Bar, Wire, Strip, Plate, Sheet and Forging
1.4404	DIN	Germany	Cold Rolled, Strips, Slit Coils and Sheets
1.4404	EN	European Union	Rod, Bars, Wire and Forging
316 S 11	BS	British	Bright Bars, Hot Rolled and Cold Rolled Coil
SUS 316L	JIS	Japan	Hot Rolled Equal Leg Angles
03CH17N14M3	GOST	Russia	Pipes, Fittings, Bar, Sheet 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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

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