GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A312 S31050

Standard Specification for Seamless, Welded, and Heavily Cold Worked Austenitic Stainless Steel Pipes

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A312 S31050 Seamless, Welded, and Heavily Cold Worked Austenitic Stainless Steel Pipes

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries
Grade Belongs to the Industry - Steel and Pipe

Chemical Composition		
Carbon	C %	0.025 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.020 max.
Sulphur	S %	0.015 max.
Silicon	Si %	0.400 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
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	580 min.
Yield Strength in Mpa	270 min.
Elongation in %	-
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	-

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
SA-312 UNS S31050	ASME	USA	Steel and Pipe
SA-213 TP310MoLN	ASME	USA	Steel and Tubing
SA-240 Type 310MoLN	ASME	USA	Plate, Sheet and Strip
A 213 S31050	ASTM	USA	Steel and Tubing
A 943 S31050	ASTM	USA	Steel and Pipe
A 182 F 310MoLN	ASTM	USA	Steel and Pipe
A 240 Type 310MoLN	ASTM	USA	Plate, Sheet and Strip

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.