GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-312 S34565

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

Group - Ferrous Stainless Steel Alloys

Sub Group - ASME SA-312 S34565 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 %	0.030 Max.
Manganese	Mn %	5.000 - 7.000
Phosphorus	P %	0.030 max.
Sulphur	S %	0.010 max.
Silicon	Si %	1.000 max.
Chromium	Cr %	23.000 - 25.000
Nickel	Ni %	16.000 - 18.000
Molybdenum	Mo %	4.500 - 5.000
Nitrogen	N %	0.400 - 0.600
Niobium	Nb %	0.100 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	795 min.
Yield Strength in Mpa	415 min.
Elongation in %	-
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
A 240 S34565	ASTM	USA	Plate, Sheet and Strip
A 182 F 49	ASTM	USA	Steel and Pipe
A 403 WP S34565	ASTM	USA	Steel
A 213 S34565	ASTM	USA	Steel and Tubing
A 249 S34565	ASTM	USA	Steel and Tubing
A 276 S34565	ASTM	USA	Bars and Shape
A 312 S34565	ASTM	USA	Steel and Pipe

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.