GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-312 S35045

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

Group - Ferrous Stainless Steel Alloys

Sub Group - ASME SA-312 S35045 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 %	0.060 - 0.100
Manganese	Mn %	1.500 max.
Phosphorus	P %	0.045 max.
Sulphur	S %	0.015 max.
Silicon	Si %	1.000 max.
Chromium	Cr %	25.000 - 29.000
Nickel	Ni %	32.000- 37.000
Titanium	Ti %	0.150 - 0.600
Aluminium	Al %	0.150 - 0.600
Copper	Cu %	0.750 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	485 min.
Yield Strength in Mpa	170 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**
SA-240 S35045	ASME	USA	Plate, Sheet and Strip
SA-213 S35045	ASME	USA	Steel and Tubing
A312 S35045	ASTM	USA	Steel and Pipe
A959 S35045	ASTM	USA	Steel
A 249 S35045	ASTM	USA	Steel and Tubing
A 213 S35045	ASTM	USA	Steel and Tubing
A 240 S35045	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.