GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A409 TP316

Standard Specification for Welded Large Diameter Austenitic Steel Pipe for Corrosive or High-Temperature Service

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A409 TP316 Welded Large Diameter Austenitic Steel Pipe for Corrosive or High-Temperature Service

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Bars, Plate, Sheet, Strip, Pipe and Rods

Chemical Composition		
Carbon	C %	0.080 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.045 max.
Sulphur	S %	0.030 max.
Silicon	Si %	1.000 max.
Nickel	Ni %	10.000 - 14.000
Chromium	Cr %	16.000 - 18.000
Molybdenum	Mo %	2.000 - 3.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	515 min.
Yield Strength in Mpa	205 min.
Elongation in %	-
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	-

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
S31600	UNS	USA	Bars, Wire, Shapes and Forging
G 4312 SUS 316	JIS	Japan	Plate and Sheet
A 249 TP316	ASTM	USA	Steel and Tubing
A 269 TP316	ASTM	USA	Steel and Tubing
A 312 TP316	ASTM	USA	Steel and Pipe
A 376 TP316	ASTM	USA	Steel and Pipe
A 988 S31600	ASTM	USA	Steel

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.