GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A376 Grade TP316H

Standard Specification for Seamless Austenitic Steel Pipe for High-Temperature Central-Station Service

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A376 Grade TP316H Seamless Austenitic Steel Pipe for High-Temperature Central-Station Service

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

Chemical Composition		
Carbon	C %	0.040 - 0.100
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.045 max.
Sulphur	S %	0.030 max.
Silicon	Si %	0.750 max.
Nickel	Ni %	11.000 - 14.000
Chromium	Cr %	16.000 - 18.000
Molybdenum	Mo %	2.000 - 3.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	515 min.
Yield Strength in Mpa	205 min.
Elongation in %	35 min.
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**
S31609	UNS	USA	Steel
J 405 316H	SAE	USA	Steel
A 182 F 316H	ASTM	USA	Pipe and Forging
A 213 Tp316H	ASTM	USA	Tubing
A 240 Type 316H	ASTM	USA	Plate, Sheet and Strip
D 3576 STS 316HTP	KS	Korea	Pipe
G 3214 SUS F 316H	JIS	Japan	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.