GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A376 Grade TP321H

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

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A376 Grade TP321H 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 %	9.000 - 13.000
Chromium	Cr %	17.000 - 19.000
Titanium	Ti %	0.004 - 0.700
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**
S32109	UNS	USA	Steel
J 405 321H	SAE	USA	Steel
1501-3 321 S 51	B.S.	United Kingdom	Steel and Plates
A 167 Type 321H	ASTM	USA	Plate, Sheet and Strip
A 213 TP321H	ASTM	USA	Tubing
A 240 Type 321H	ASTM	USA	Plate, Sheet and Strip
D 3576 STS 321HTP	KS	Korea	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

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