GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A376 Grade TP304N

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

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A376 Grade TP304N 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 %	0.080 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.045 max.
Sulphur	S %	0.030 max.
Silicon	Si %	0.750 max.
Nickel	Ni %	8.000 - 11.000
Chromium	Cr %	18.000 - 20.000
Nitrogen	N %	0.100 - 0.160
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	550 min.
Yield Strength in Mpa	240 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**
S30451	UNS	USA	Steel
J 405 304N	SAE	USA	Steel
A 182 F 304N	ASTM	USA	Pipe and Forging
A 213 TP304N	ASTM	USA	Tubing
A 240 Type 304N	ASTM	USA	Plate, Sheet and Strip
A 249 TP304N	ASTM	USA	Tubing
A 312 TP304N	ASTM	USA	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.