GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-376 Grade TP304N

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

Group - Ferrous Stainless Steel Alloys

Sub Group - ASME SA-376 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 - Steel and 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
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 BHN	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
AMS-QQ-S-763 304	SAE	USA	Sheet, Bar, Wire, Shape and Forging
J 405 304L	SAE	USA	Steel
J 405 304N	SAE	USA	Steel
G 3214 SUS F 304N	JIS	Japan	Steel and Forging
A 49-244 Z 6 CN19-09 Az	AFNOR NF	France	Steel and Tubing
A 943 TP304N	ASTM	USA	Steel and Pipe
SA-813 TP304N	ASME	USA	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

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.