GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - SAE J405 Type 321

Standard Specification for Chemical Compositions of SAE Wrought Stainless Steels

Group - Ferrous Stainless Steel Alloys

Sub Group - SAE J405 Type 321 Chemical Compositions of SAE Wrought Stainless Steels

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

Grade Belongs to the Industry - Steel

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.
Chromium	Cr %	17.000 - 19.000
Nickel	Ni %	9.000 - 12.000
Nitrogen	N %	0.100 max.
Titanium	Ti %	0.010 - 0.700
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	515 min.
Yield Strength in Mpa	205 min.
Elongation in %	40 min.
Reduction of Area in %	-
Hardness in BHN	217 max.
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
S32100	UNS	USA	Steel
EN 10088-1 X6CrNiTi18-10	AFNOR NF	France	Steel
9327-5 X 6 CrNiTi 18 10	ISO	International	Steel and Bar
A 167 Type 321	ASTM	USA	Plate, Sheet and Strip
A 213 TP321	ASTM	USA	Steel and Tubing
A 249 TP321	ASTM	USA	Steel and Tubing
A 276 321	ASTM	USA	Steel, Bar and Shapes

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.