GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - SAE J405 S32550

Standard Specification for Chemical Compositions of SAE Wrought Stainless Steels

Group - Ferrous Stainless Steel Alloys

Sub Group - SAE J405 S32550 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 %	0.040 max.
Manganese	Mn %	1.500 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.030 max.
Silicon	Si %	1.000 max.
Chromium	Cr %	24.000 - 27.000
Nickel	Ni %	4.500 - 6.500
Molybdenum	Mo %	2.900 - 3.900
Nitrogen	N %	0.100 - 0.250
Copper	Cu %	1.500 - 2.500
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	760 min.
Yield Strength in Mpa	550 min.
Elongation in %	15 min.
Reduction of Area in %	-
Hardness in BHN	302 max.
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
SA-240 UNS S32550	ASME	USA	Plate, Sheet and Strip
SA-276 S32550	ASME	USA	Steel, Bar and Shapes
SA-479 UNS S32550	ASME	USA	Steel and Bar
SA-789 UNS S32550	ASME	USA	Steel and Tubing
A 240 S32550	ASTM	USA	Plate, Sheet and Strip
A 276 S32550	ASTM	USA	Steel, Bar and Shapes
A 789 S32550	ASTM	USA	Steel and Tubing

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.