GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - SAE J405 S21800

Standard Specification for Chemical Compositions of SAE Wrought Stainless Steels

Group - Ferrous Stainless Steel Alloys

Sub Group - SAE J405 S21800 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 %	0.100 max.
Manganese	Mn %	7.000 - 9.000
Phosphorus	P %	0.060 max.
Sulphur	S %	0.030 max.
Silicon	Si %	3.500 - 4.500
Chromium	Cr %	16.000 - 18.000
Nickel	Ni %	8.000 - 9.000
Nitrogen	N %	0.080 - 0.180
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	655 min.
Yield Strength in Mpa	345 min.
Elongation in %	35 min.
Reduction of Area in %	-
Hardness in BHN	241 max.
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
S21800	UNS	USA	Steel
SA-276 S21800	ASME	USA	Steel, Bar and Shapes
SA-479 Type S21800	ASME	USA	Steel, Bar and Shapes
A 959 S21800	ASTM	USA	Steel
A 580 S21800	ASTM	USA	Steel and Wire
A 479 Type S21800	ASTM	USA	Steel, Bar and Shapes
A 276 S21800	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.