GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - SAE J405 S46800

Standard Specification for Chemical Compositions of SAE Wrought Stainless Steels

Group - Ferrous Stainless Steel Alloys

Sub Group - SAE J405 S46800 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 %	0.030 max.
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.030 max.
Silicon	Si %	1.000 max.
Chromium	Cr %	18.000 - 20.000
Nickel	Ni %	0.500 max.
Titanium	Ti %	0.070 - 0.300
Niobium	Nb %	0.100 - 0.600
Nitrogen	N %	0.030 max.
Ti + Nb	Ti% + Nb%	0.208 - 0.800
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	415 min.
Yield Strength in Mpa	205 min.
Elongation in %	22 min.
Reduction of Area in %	-
Hardness in BHN	183 max.
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
S46800	UNS	USA	Steel
A 240 S46800	ASTM	USA	Plate, Sheet and Strip
A 959 S46800	ASTM	USA	Steel
A 268 TP468	ASTM	USA	Steel and Tubing
A 268 S46800	ASTM	USA	Steel and Tubing
A 240 TP468	ASTM	USA	Plate, Sheet and Strip
SA-240 UNS S46800	ASME	USA	Plate, Sheet and Strip

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.