GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - SAE J405 S44735

Standard Specification for Chemical Compositions of SAE Wrought Stainless Steels

Group - Ferrous Stainless Steel Alloys

Sub Group - SAE J405 S44735 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 %	28.000 - 30.000
Nickel	Ni %	1.000 max.
Molybdenum	Mo %	3.600 - 4.200
Nitrogen	N %	0.045 max.
Ti + Nb	Ti% + Nb%	0.200 - 1.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	550 min.
Yield Strength in Mpa	415 min.
Elongation in %	18 min.
Reduction of Area in %	-
Hardness in BHN	255 max.
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
A 176 S44735	ASTM	USA	Plate, Sheet and Strip
A 240 S44735	ASTM	USA	Plate, Sheet and Strip
A 268 S44735	ASTM	USA	Steel and Tubing
A 959 Type 29-4C	ASTM	USA	Steel
SA-240 Type 29-4C	ASME	USA	Plate, Sheet and Strip
SA-240 UNS S44735	ASME	USA	Plate, Sheet and Strip
SA-268 UNS S44735	ASME	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.