GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - SAE J405 S44700

Standard Specification for Chemical Compositions of SAE Wrought Stainless Steels

Group - Ferrous Stainless Steel Alloys

Sub Group - SAE J405 S44700 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 %	0.010 max.
Manganese	Mn %	0.300 max.
Phosphorus	P %	0.025 max.
Sulphur	S %	0.020 max.
Silicon	Si %	0.200 max.
Chromium	Cr %	28.000 - 30.000
Nickel	Ni %	0.150 max.
Molybdenum	Mo %	3.500 - 4.200
Nitrogen	N %	0.020 max.
Copper	Cu %	0.150 max.
C + N	C% + N%	0.025 max.
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 %	20 min.
Reduction of Area in %	-
Hardness in BHN	223 max.
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
A 176 S44700	ASTM	USA	Plate, Sheet and Strip
A 240 S44700	ASTM	USA	Plate, Sheet and Strip
A 276 S44700	ASTM	USA	Steel, Bar and Shapes
A 479 S44700	ASTM	USA	Steel
A 439 S44700	ASTM	USA	Steel, Wire, Rods and Forging
A 580 S44700	ASTM	USA	Steel and Wire
SA-240 UNS S44700	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.