GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - SAE J405 Type 444

Standard Specification for Chemical Compositions of SAE Wrought Stainless Steels

Group - Ferrous Stainless Steel Alloys

Sub Group - SAE J405 Type 444 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 %	0.025 max.
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.030 max.
Silicon	Si %	1.000 max.
Chromium	Cr %	17.500 - 19.500
Nickel	Ni %	1.000 max.
Molybdenum	Mo %	1.750 - 2.500
Nitrogen	N %	0.035 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	275 min.
Elongation in %	20 min.
Reduction of Area in %	-
Hardness in BHN	217 max.
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
G 4305 SUS 444	JIS	Japan	Plate, Sheet and Strip
683-13 F1	ISO	International	Steel
D 3576 STS 444TP	KS	Korea	Steel and Pipe
D 3698 STS 444	KS	Korea	Plate, Sheet and Strip
1449 444	AS	Australia	Plate, Sheet and Strip
A 240 Type 444	ASTM	USA	Plate, Sheet and Strip
J 2515 444	SAE	USA	Steel

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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