GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - SAE J405 Type 305

Standard Specification for Chemical Compositions of SAE Wrought Stainless Steels

Group - Ferrous Stainless Steel Alloys

Sub Group - SAE J405 Type 305 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 %	0.120 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.045 max.
Sulphur	S %	0.030 max.
Silicon	Si %	0.750 max.
Chromium	Cr %	17.000 - 19.000
Nickel	Ni %	10.500 - 13.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	485 min.
Yield Strength in Mpa	170 min.
Elongation in %	40 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**
S30500	UNS	USA	Steel
D 3698 STS 305	KS	Korea	Plate, Sheet and Strip
AMS-QQ-S-763 305	AMS	USA	Sheet, Bar, Wire, Shape and Forging
AMS 5514 305	AISI	USA	Steel
G 4315 SUS 305-WSB	JIS	Japan	Steel, Wire and Forgings
G 4315 SUS 305-WSA	JIS	Japan	Steel, Wire and Forgings
G 4309 SUS 305	JIS	Japan	Steel and Wire

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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