GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-479 Type 405

Standard Specification for Stainless Steel Bars and Shapes for Use in Boilers and Other Pressure Vessels

Group - Ferrous Stainless Steel Alloys

Sub Group - ASME SA-479 Type 405 Stainless Steel Bars and Shapes for Use in Boilers and Other Pressure Vessels

Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries
Grade Belongs to the Industry - Bars and Shapes

Chemical Composition		
Carbon	C %	0.080 max.
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.030 max.
Silicon	Si %	1.000 max.
Chromium	Cr %	11.500 - 14.500
Nickel	Ni %	0.500 max.
Aluminium	Al %	0.100 - 0.300
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing

Mechanical Properties	
Tensile Strength in Mpa	415 min.
Yield Strength in Mpa	170 min.
Elongation in %	20 min.
Reduction of Area in %	45 min.
Hardness in BHN	207 max.
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
G 4312 SUS 405	JIS	Japan	Plate and Sheet
G 3463 SUS 405 TB	JIS	Japan	Steel and Tubing
D 3703 STS 405	KS	Korea	Steel and Wire
6900 X 6 CrAl 13	UNI	Italy	Steel
86020 O H 13 J	PN	Poland	Steel
A 959 Type 405	ASTM	USA	Steel
A 511 MT405	ASTM	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

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