GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A479 S32101

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

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A479 S32101 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 %	0.040 max.
Manganese	Mn %	4.000 - 6.000
Phosphorus	P %	0.040 max.
Sulphur	S %	0.030 max.
Silicon	Si %	1.000 max.
Chromium	Cr %	21.000 - 22.000
Nickel	Ni %	1.350 - 1.700
Nitrogen	N %	0.200 - 0.250
Molybdenum	Mo %	0.100 - 0.800
Copper	Cu %	0.100 - 0.800
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing

Mechanical Properties	
Tensile Strength in Mpa	650 min.
Yield Strength in Mpa	450 min.
Elongation in %	30 min.
Reduction of Area in %	-
Hardness in HB	290 max.
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
SA-240 S32101	ASME	USA	Plate, Sheet and Strip
SA-276 S32101	ASME	USA	Steel, Bar and Shapes
A276 S32101	ASTM	USA	Steel, Bar and Shapes
A 240 UNS S32101	ASTM	USA	Plate, Sheet and Strip
A 815 S32101	ASTM	USA	Steel and Pipe
A 182 S32101	ASTM	USA	Steel and Pipe
A 182 F 69	ASTM	USA	Steel and Pipe

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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