GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-479 S20161

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 S20161 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 %	0.150 max.
Manganese	Mn %	4.000 - 6.000
Phosphorus	P %	0.045 max.
Sulphur	S %	0.030 max.
Silicon	Si %	3.000 - 4.000
Chromium	Cr %	15.000 - 18.000
Nickel	Ni %	4.000 - 6.000
Nitrogen	N %	0.080 - 0.200
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing

Mechanical Properties	
Tensile Strength in Mpa	860 min.
Yield Strength in Mpa	345 min.
Elongation in %	40 min.
Reduction of Area in %	40 min.
Hardness in BHN	311 max.
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
S20161	UNS	USA	Steel
SA-240 UNS S20161	ASME	USA	Plate, Sheet and Strip
SA-276 S20161	ASME	USA	Bars and Shapes
A 240 S20161	ASTM	USA	Plate, Sheet and Strip
A 276 S20161	ASTM	USA	Bars and Shapes
A 479 S20161	ASTM	USA	Steel and Bars
A 959 S20161	ASTM	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

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.