



## Material - ASME SA-240 UNS S20161

**Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet and Strip for Pressure Vessels and for General Applications**

**Group - Ferrous Stainless Steel Alloys**

**Sub Group - ASME SA-240 UNS S20161 Chromium and Chromium-Nickel Stainless Steel for Pressure Vessels and for General Applications**

**Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries**

**Grade Belongs to the Industry - Steel**

Chemical Composition			Heat Treatment	
Carbon	C %	0.150 max.	Solution Annealing	
Silicon	Si %	3.000 - 4.000		
Manganese	Mn %	4.000 - 6.000		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	15.000 - 18.000		
Nickel	Ni %	4.000 - 6.000		
Nitrogen	N %	0.080 - 0.200		
Iron	Fe %	Balance	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 HB	255 max.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S20161	ASTM	USA	Steel, Plate, Sheet and Strip
S20161	UNS	USA	Steel
A276 S20161	ASTM	USA	Steel, Bar and Shapes
A479 S20161	ASTM	USA	Steel and Bar
A959 S20161	ASTM	USA	Steel
SA-276 S20161	ASME	USA	Steel, Bar and Shapes
SA-479 UNS S20161	ASME	USA	Steel and Bar

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

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