

Material - 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 - UNS 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		
Carbon	C %	0.150 max.
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 - 6000
Nitrogen	N %	0.080 - 0.200
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
Solution Annealing	

Mechanical Properties	
Tensile Strength in Mpa	860 min.
Yield Strength in Mpa	345 min.
Elongation in %	40 min.
Reduction of Area in %	-
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
A276 S20161	ASTM	USA	Steel, Bar and Shape
A479 S20161	ASTM	USA	Steel and Bar
A959 S20161	ASTM	USA	Steel
SA-240 UNS S20161	ASME	USA	Steel
SA-276 S20161	ASME	USA	Steel, Bar and Shape
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

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.