



## Material - UNS S21600

**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			Heat Treatment	
Carbon	C %	0.080 max.	Solution Annealing	
Silicon	Si %	0.750 max.		
Manganese	Mn %	7.500 - 9.000		
Phosphorus	P %	0.045 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	17.500 - 22.000		
Nickel	Ni %	5.000 - 7.000		
Molybdenum	Mo %	2.000 - 3.000		
Nitrogen	N %	0.250 - 0.500		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa      690 min. Yield Strength in Mpa      415 min. Elongation in %      40 min. Reduction of Area in %      - Hardness in HB      241 max. Impact in Joule      -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S21600	ASTM	USA	Steel, Plate, Sheet and Strip
XM-17	SAE	USA	Steel
A492 Type XM-17	ASTM	USA	Steel and Wire
A959 Type XM-17	ASTM	USA	Steel
A240 Type XM-18	ASTM	USA	Steel, Plate, Sheet and Strip
A959 Type XM-18	ASTM	USA	Steel
XM-18	SAE	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](mailto:marketing@gravitycastindia.com)**

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