

## Material - SAE XM-18

## 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 - SAE XM-18 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 %	0.030 max.		
Silicon	Si %	0.750 max.		
Manganese	Mn %	7.500 - 9.000		
Phosphorus	P %	0.045 max.	Solution Annealing	
Sulphur	S %	0.030 max.		
Chromium	Cr %	17.500 - 22.000		
Molybdenum	Mo %	2.000 - 3.000		
Nickel	Ni %	5.000 - 7.000		
Nitrogen	N %	0.250 - 0.500	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	620 min.
-	-	-	Yield Strength in Mpa	345 min.
-	-	-	Elongation in %	40 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	241 max.
-	-	-	Impac <mark>t in Joule</mark>	-

Cross Reference Table				
Material	Standard	Country Grade Belong to the Industry		
A240 UNS S21600	ASTM	USA	Steel, Plate, Sheet and Strip	
S21600	UNS	USA	Steel	
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	

## 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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