

# Material: SAE XM-19

## 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-19 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 %	0.060 max.
Silicon	Si %	0.750 max.
Manganese	Mn %	4.000 - 6.000
Phosphorus	P %	0.040 max.
Sulphur	S %	0.030 max.
Chromium	Cr %	20.500 - 23.500
Molybdenum	Mo %	1.500 - 3.000
Nickel	Ni %	11.500 - 13.500
Niobium	Nb %	0.100 - 0.300
Nitrogen	N %	0.200 - 0.400
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
Solution Annealing	
Mechanical Properties	
Tensile Strength in Mpa	690 min.
Yield Strength in Mpa	379 min.
Elongation in %	35 min.
Reduction of Area in %	-
Hardness in BHN	20 min.
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S20910	ASTM	USA	Steel, Plate, Sheet and Strip
20910	UNS	USA	Steel
5764	AMS	USA	Steel, Bar, Wire, Extrusion and Forging
A358 XM-19	ASTM	USA	Steel and Pipe
A479 XM-19	ASTM	USA	Steel and Bar
A182 F XM-19	ASTM	USA	Steel, Pipe and Forging
A314 XM-19	ASTM	USA	Steel, Rolling and Forging

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