

# Material: ASTM A 314 XM-27

## Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate,Sheet and Strip

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** ASTM A 314 XM-27 Chromium and Chromium-Nickel Stainless Steel Plate,Sheet and Strip

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

**Grade Belongs to the Industry:** Steel, Bar, Rolling and Forging

Chemical Composition		
Carbon	C %	0.010 max.
Silicon	Si %	0.400 max.
Manganese	Mn %	0.400 max.
Phosphorus	P %	0.020 max.
Sulphur	S %	0.020 max.
Chromium	Cr %	25.000 - 27.500
Molybdenum	Mo %	0.750 - 1.500
Nitrogen	N %	0.015 max.
Cu + Ni	Cu% + Ni%	0.500 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
Annealing or Hardening + Tempering	

Mechanical Properties	
Tensile Strength in Mpa	415 min.
Yield Strength in Mpa	240 min.
Elongation in %	20 min.
Reduction of Area in %	45 min.
Hardness in HB	190 max.
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S44627	ASTM	USA	Steel, Plate, Sheet and Strip
S44627	UNS	USA	Steel
XM-27	SAE	USA	Steel
STS XM-27	KS	Korea	Steel, Sheet, Plate and Strip
SUS SM-27	JIS	Japan	Steel and Bar
A276 XM-27	ASTM	USA	Steel, Bar and Shapes
A182 F XM-27Cb	ASTM	USA	Steel, Pipe and Forging

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