

## Material: SAE XM-27

### 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-27 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 %	0.020 max.	Annealing or Hardening + Tempering
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	
Nickel	Ni %	0.500 max.	
Nitrogen	N %	0.015 max.	
Copper	Cu %	0.200 max.	
Niobium	Nb %	0.050 - 0.200	Mechanical Properties
Ni + Cu	Ni% + Cu%	0.500 max.	
Iron	Fe %	Balance	
-	-	-	
-	-	-	
-	-	-	

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
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
A314 XM-27	ASTM	USA	Steel, Bar, Rolling and Forging
A182 F XM-27Cb	ASTM	USA	Steel, Pipe and Forging

**Disclaimer:** All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)



+91-99090 45075



[info@icastllp.com](mailto:info@icastllp.com)



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India