

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.		
			Mechanical Properties	
Niobium	Nb %	0.050 - 0.200	Tensile Strength in Mpa	-
Ni + Cu	Ni% + Cu%	0.500 max.	Yield Strength in Mpa	-
Iron	Fe %	Balance	Elongation in %	-
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	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
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

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