



Material - JIS SUS XM-27

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

Group - Ferrous Stainless Steel Alloys

Sub Group - KS STS 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 and Bar

Chemical Composition			Heat Treatment	
Carbon	C %	0.010 max.	Annealing or Hardening + Tempering	
Silicon	Si %	0.400 max.		
Manganese	Mn %	0.400 max.		
Phosphorus	P %	0.030 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.		
Ni + Cu	Ni% + Cu%	0.500 max.	Mechanical Properties Tensile Strength in Mpa 410 min. Yield Strength in Mpa 245 min. Elongation in % 20 min. Reduction of Area in % 45 min. Hardness in HB 219 max. Impact in Joule -	
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
XM-27	SAE	USA	Steel
STS XM-27	KS	Korea	Steel, Sheet, Plate and Strip
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

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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