

Material: ASTM A 176 Type XM-33

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: ASTM A 176 Type XM-33 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, Sheet, Plate and Strip

Chemical Composition			Heat Treatment	
Carbon	C %	0.060 max.	Annealing or Hardening + Tempering	
Silicon	Si %	0.750 max.		
Manganese	Mn %	0.750 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	25.000 - 27.000		
Molybdenum	Mo %	0.750 - 1.500		
Nickel	Ni %	0.500 max.		
Nitrogen	N %	0.040 max.		
Copper	Cu %	0.200 max.		
Titanium	Ti %	0.200 - 1.000	Mechanical Properties	
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Tensile Strength in Mpa	470 min.
			Yield Strength in Mpa	310 min.
			Elongation in %	20 min.
			Reduction of Area in %	-
			Hardness in HB	217 max.
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S44626	ASTM	USA	Steel, Plate, Sheet and Strip
S44626	UNS	USA	Steel
XM-33	SAE	USA	Steel
A268 TP XM-33	ASTM	USA	Steel and Tube
A959 Type XM-33	ASTM	USA	Steel
A731 Grade TP XM-33	ASTM	USA	Steel and Pipe
A791 Grade TP XM-33	ASTM	USA	Steel and Tube

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Customer Care: +91-99090 45075 Email: info@icastllp.com