

# Material: UNS S44626

## 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:** UNS 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		
Carbon	C %	0.060 max.
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
Nickel	Ni %	0.500 max.
Molybdenum	Mo %	0.750 - 1.500
Nitrogen	N %	0.040 max.
Copper	Cu %	0.200 max.
Titanium	Ti %	0.200 - 1.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment	
Annealing or Hardening + Tempering	
Mechanical Properties	
Tensile Strength in Mpa	470 min.
Yield Strength in Mpa	310 min.
Elongation in %	20 min.
Reduction of Area in %	-
Hardness in BHN	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
XM-33	SAE	USA	Steel
A176 Type XM-33	ASTM	USA	Steel, Sheet, Plate and Strip
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](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