

# Material: ASTM A176 S44400

## Standard Specification for Stainless and Heat-Resisting Chromium Steel Plate, Sheet, and Strip

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** ASTM A176 S44400 Stainless and Heat-Resisting Chromium Steel Plate, Sheet, and Strip

**Application:** Intended for Valve, Pump, General Engineering, Automotive and Other Industries

**Grade Belongs to the Industry:** Plate, Sheet and Strip

Chemical Composition			Heat Treatment	
Carbon	C %	0.025 max.	Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	17.500 - 19.500		
Molybdenum	Mo %	1.750 - 2.500		
Nickel	Ni %	1.000 max.		
Ti + Nb	Ti% + Nb%	0.800 max.	Mechanical Properties	
Nitrogen	N %	0.035 max.	Tensile Strength in Mpa	415 min.
Iron	Fe %	Balance	Yield Strength in Mpa	275 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
444	AS	Australia	Plate, Sheet and Strip
SA-731 18 Cr-2Mo	ASTM	USA	Casting
F.3123	UNE	Spain	Casting
S44400	UNS	USA	Plate, Sheet and Strip
X 2 CrMoTiNb 18-2	UNE	Spain	Plate, Sheet and Strip
444	SAE	USA	Plate, Sheet and Strip
A731 18Cr-2Mo	ASTM	USA	Casting

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