

# Material: ASTM A176 S44700

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

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** ASTM A176 S44700 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		
Carbon	C %	0.010 max.
Silicon	Si %	0.200 max.
Manganese	Mn %	0.300 max.
Phosphorus	P %	0.025 max.
Sulphur	S %	0.020 max.
Chromium	Cr %	28.000 - 30.000
Molybdenum	Mo %	3.500 - 4.200
Nickel	Ni %	0.150 max.
C + N	C % + N %	0.025 max.
Nitrogen	N %	0.020 max.
Copper	Cu %	0.150 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment	
Normalizing or Annealing or Hardening + Tempering	

Mechanical Properties	
Tensile Strength in Mpa	550 min.
Yield Strength in Mpa	415 min.
Elongation in %	20 min.
Reduction of Area in %	-
Hardness in HRC	20 max.
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
S44700	UNS	USA	Plate, Sheet and Strip
SA-731 29-4	ASME	USA	Plate, Sheet and Strip
A268 29-4	ASTM	USA	Tube
A493 S44700	ASTM	USA	Forging
A580 S44700	ASTM	USA	Wire
A791 Grade 29-4	ASTM	USA	Tube
A731 29-4	ASTM	USA	Casting

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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