

# Material: ASTM A 268 S42035

## 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 268 S42035 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 and Tube

Chemical Composition			Heat Treatment	
Carbon	C %	0.080 max.	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 %	13.500 - 15.500		
Nickel	Ni %	1.000 - 2.500		
Molybdenum	Mo %	0.200 - 1.200		
Titanium	Ti %	0.300 - 0.500		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
Mechanical Properties				
			Tensile Strength in Mpa	550 min.
			Yield Strength in Mpa	380 min.
			Elongation in %	11 min.
			Reduction of Area in %	-
			Hardness in HB	180 max.
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S42035	ASTM	USA	Steel, Plate, Sheet and Strip
S42035	UNS	USA	Steel
A959 S42035	ASTM	USA	Steel
1.4589	DIN	Germany	Steel and Flat
1.4589	EN	European Union	Steel and Flat
X5CrNiMoTi 15 2	DIN	Germany	Steel and Flat
X5CrNiMoTi 15 2	EN	European Union	Steel and Flat

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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