

Material: UNS 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: 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			Heat Treatment	
Carbon	C %	0.080 max.	Annealing or Hardening + Tempering	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.045 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 % 16 min. Reduction of Area in % - Hardness in BHN - Impact in Joule -	
-	-	-		
-	-	-		
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-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S42035	ASTM	USA	Steel, Plate, Sheet and Strip
A268 S42035	ASTM	USA	Steel and Tube
A959 S42035	ASTM	USA	Steel
1.4589	WN	Germany	Steel and Flat
1.4589	DIN	Germany	Steel and Flat
X5CrNiMoTi 15 2	DIN	Germany	Steel and Flat
X5CrNiMoTi 15 2	WN	Germany	Steel and Flat

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