

Material: DIN 1.4589

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: DIN 1.4589 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 Plate

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 - 750	
Yield Strength in Mpa	360 min.	
Elongation in %	14 min.	
Reduction of Area in %	-	
Hardness in BHN	-	
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
A268 S42035	ASTM	USA	Steel and Tube
A959 S42035	ASTM	USA	Steel
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



+91-99090 45075



info@icastllp.com



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India