

Material: ASTM A 959 Type 334

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 959 Type 334 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		
Carbon	C %	0.080 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.030 max.
Sulphur	S %	0.015 max.
Chromium	Cr %	18.000 - 20.000
Nickel	Ni %	19.000 - 21.000
Aluminium	Al %	0.150 - 0.600
Titanium	Ti %	0.150 - 0.600
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
	Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	485 min.
Yield Strength in Mpa	170 min.
Elongation in %	30 min.
Reduction of Area in %	-
Hardness in HRC	92 max.
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S33400	ASTM	USA	Steel, Plate, Sheet and Strip
S22400	UNS	USA	Steel
X8CrNiAlTi20-20	DIN	Germany	Steel
1.4847	DIN	Germany	Steel
1.4847	EN	European Union	Steel
-	-	-	-
-	-	-	-

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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