

Material: ASTM A 959 S44500

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 S44500 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 %	0.020 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.012 max.
Chromium	Cr %	19.000 - 21.000
Nickel	Ni %	0.600 max.
Nitrogen	N %	0.030 max.
Copper	Cu %	0.300 - 0.600
Niobium	Nb %	0.800 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
	Annealing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	427 min.
Yield Strength in Mpa	205 min.
Elongation in %	22 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S44500	ASTM	USA	Steel, Plate, Sheet and Strip
S44500	UNS	USA	Steel
SA-240 UNS S44500	ASME	USA	Steel, Sheet, Plate and Strip
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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