

Material: ASTM A 959 Type 439

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 439 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 %	0.030 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 %	17.000 - 19.000		
Nickel	Ni %	0.500 max.		
Nitrogen	N %	0.030 max.		
Titanium	Ti %	1.100 max.		
Aluminium	Al %	0.150 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Tensile Strength in Mpa	415 min.
			Yield Strength in Mpa	205 min.
			Elongation in %	20 min.
			Reduction of Area in %	-
			Hardness in BHN	207 max.
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S43035	ASTM	USA	Steel, Plate, Sheet and Strip
S43035	UNS	USA	Steel
A959 S43035	ASTM	USA	Steel
439	SAE	USA	Steel
A479 439	ASTM	USA	Steel and Bar
A803 Grade TP 439	ASTM	USA	Steel and Tube
SA-240 439	ASME	USA	Steel

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