

Material: UNS S42900

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		
Carbon	C %	0.120 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.030 max.
Chromium	Cr %	14.000 - 16.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	450 min.
Yield Strength in Mpa	205 min.
Elongation in %	22 min.
Reduction of Area in %	-
Hardness in BHN	183 max.
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S42900	ASTM	USA	Steel, Plate, Sheet and Strip
429	SAE	USA	Steel
STS 429	KS	Korea	Steel, Sheet, Plate and Strip
SUS 429	JIS	Japan	Steel, Sheet, Plate and Strip
A182 F429	ASTM	USA	Steel, Pipe and Forging
A276 429	ASTM	USA	Steel, Bar and Shape
A959 Type 429	ASTM	USA	Steel

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