

Material: UNS S40900

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			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 %	0.020 max.				
Chromium	Cr %	10.500 - 11.700				
Nickel	Ni %	0.500 max.				
Nitrogen	N %	0.030 max.				
Iron	Fe %	Balance				
-	-	-				
-	-	-	<th colspan="2">Mechanical Properties</th>		Mechanical Properties	
-	-	-	Tensile Strength in Mpa	380 min.		
-	-	-	Yield Strength in Mpa	170 min.		
-	-	-	Elongation in %	20 min.		
-	-	-	Reduction of Area in %	-		
-	-	-	Hardness in BHN	179 max.		
-	-	-	Impact in Joule	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S40900	ASTM	USA	Steel, Plate, Sheet and Strip
409	AS	Australia	Steel, Sheet, Plate and Strip
409	SAE	USA	Steel
STS 409LTP	KS	Korea	Steel and Pipe
SUH 409	JIS	Japan	Steel, Plate and Sheet
409 S 19	BS	British	Steel, Sheet, Plate and Strip
SA-240 UNS S40900	ASME	USA	Steel

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