

Material: SAE 409

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: SAE 490 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 %	0.080 max.	Annealing or Hardening + Tempering	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.045 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	10.500 - 11.750		
Nickel	Ni %	0.500 max.		
Titanium	Ti %	0.750 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	407 min.
-	-	-	Yield Strength in Mpa	255 min.
-	-	-	Elongation in %	-
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HRC	68 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
S409000	UNS	USA	Steel
409	AS	Australia	Steel, Sheet, Plate and Strip
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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