

Material: AS 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: AS 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, Sheet, Plate and Strip

Chemical Composition		
Carbon	C %	0.080 max.
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
Molybdenum	Mo %	0.350 max.
Nickel	Ni %	0.500 max.
Titanium	Ti %	0.750 max.
Copper	Cu %	0.350 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
	Annealing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	380 min.
Yield Strength in Mpa	205 min.
Elongation in %	20 min.
Reduction of Area in %	-
Hardness in HB	80 min.
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	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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