

Material: ASME SA-240 UNS S44635

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: ASME SA-240 UNS S44635 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 %	0.025 max.
Silicon	Si %	0.750 max.
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.030 max.
Chromium	Cr %	24.500 - 26.000
Molybdenum	Mo %	3.500 - 4.500
Nickel	Ni %	3.500 - 4.500
Nitrogen	N %	0.035 max.
Titanium	Ti %	0.800 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	620 min.
Yield Strength in Mpa	515 min.
Elongation in %	20 min.
Reduction of Area in %	-
Hardness in HB	269 max.
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S44635	ASTM	USA	Steel, Plate, Sheet and Strip
S11635	UNS	USA	Steel
A176 S44635	ASTM	USA	Steel, Sheet, Plate and Strip
A268 25-4-4	ASTM	USA	Steel and Tube
A791 Grade 25-4-4	ASTM	USA	Steel and Tube
A803 Grade 25-4-4	ASTM	USA	Steel and Tube
A959 Type 25-4-4	ASTM	USA	Steel

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