

# Material: ASTM A 943 S30600

## 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:** ASTM A943 S30600 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 and Pipe

Chemical Composition		
Carbon	C %	0.018 max.
Silicon	Si %	3.700 - 4.300
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.020 max.
Sulphur	S %	0.020 max.
Chromium	Cr %	17.000 - 18.500
Molybdenum	Mo %	0.200 max.
Nickel	Ni %	14.000 - 15.500
Copper	Cu %	0.500 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
	Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	540 min.
Yield Strength in Mpa	240 min.
Elongation in %	25 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S30600	ASTM	USA	Steel, Plate, Sheet and Strip
A959 S30600	ASTM	USA	Steel
A167 S30600	ASTM	USA	Steel, Plate, Sheet and Strip
A269 S30600	ASTM	USA	Steel and Tube
A312 S30600	ASTM	USA	Steel and Pipe
A358 S30600	ASTM	USA	Steel and Pipe
A479 S30600	ASTM	USA	Steel and Bar

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