

# Material: ASTM A 789 S32304

## 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 A 789 S32304 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 Tube

Chemical Composition		
Carbon	C %	0.030 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	2.500 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 max.
Chromium	Cr %	21.500 - 24.500
Nickel	Ni %	3.000 - 5.500
Molybdenum	Mo %	0.050 - 0.600
Nitrogen	N %	0.050 - 0.200
Copper	Cu %	0.050 - 0.600
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
	Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	600 min.
Yield Strength in Mpa	400 min.
Elongation in %	25 min.
Reduction of Area in %	-
Hardness in BHN	290 max.
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S32304	ASTM	USA	Steel, Plate, Sheet and Strip
S32304	UNS	USA	Steel
A276 S32304	ASTM	USA	Steel, Bar and Shapes
A790 S32304	ASTM	USA	Steel and Tube
A928 S32304	ASTM	USA	Steel and Pipe
S32304	AS	Australia	Steel, Sheet, Plate and Strip
SA-276 S32304	ASME	USA	Steel, Bar and Shapes

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