

## Material: ASTM A 167 S30815

### 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 167 S30815 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, Plate, Sheet and Strip

Chemical Composition			Heat Treatment	
Carbon	C %	0.050 - 0.100	Solution Annealing	
Silicon	Si %	1.400 - 2.000		
Manganese	Mn %	0.800 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	20.000 - 22.000		
Nickel	Ni %	10.000 - 12.000		
Cerium	Ce %	0.030 - 0.080		
Nitrogen	N %	0.140 - 0.200	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	600 min.
-	-	-	Yield Strength in Mpa	310 min.
-	-	-	Elongation in %	40 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	217 max.
-	-	-	Impact in Joule	-

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
A240 UNS S30815	ASTM	USA	Steel, Plate, Sheet and Strip	
S30815	UNS	USA	Steel, Plate, Sheet and Strip	
S30815	AS	Australia	Steel, Plate, Sheet and Strip	
A249 S30815	ASTM	USA	Steel and Tube	
A276 S30815	ASTM	USA	Steel, Bar and Shapes	
A409 S30815	ASTM	USA	Steel and Pipe	
A959 S30815	ASTM	USA	Steel	

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