

## Material: ASTM A240 UNS S41003

### 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 A240 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 %	0.030 max.	Annealing or Hardening + Tempering	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	10.500 - 12.500		
Nickel	Ni %	1.500 max.		
Nitrogen	N %	0.030 max.		
Iron	Fe %	Balance		
-	-	-		
			Mechanical Properties	
-	-	-	Tensile Strength in Mpa	455 min.
-	-	-	Yield Strength in Mpa	275 min.
-	-	-	Elongation in %	18 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	223 max.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A217 CA 15	ASTM	USA	Casting
A487 CA 15	ASTM	USA	Casting
5351	AMS	USA	Casting
410	AISI	USA	Bar, Wire, Shape and Forging
410 C 21	BS	British	Casting
15Ch13L	GOST	Russia	Casting
385 G X 12 Cr 13	SFS	Finland	Casting

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