

Material: ASTM A240 UNS S41050

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 %	0.040 max.	Annealing or Hardening + Tempering	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.045 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	10.500 - 12.500		
Nickel	Ni %	0.600 - 1.100		
Nitrogen	N %	0.100 max.		
Iron	Fe %	Balance		
-	-	-		
			Mechanical Properties	
-	-	-	Tensile Strength in Mpa	415 min.
-	-	-	Yield Strength in Mpa	205 min.
-	-	-	Elongation in %	22 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	183 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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