

Material: ASTM A240 UNS S41045

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 %	1.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	12.000 - 13.000		
Nickel	Ni %	0.500 max.		
Nitrogen	N %	0.030 max.		
Niobium	Nb %	9 (C+N) - 0.600		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 380 min. Yield Strength in Mpa 205 min. Elongation in % 22 min. Reduction of Area in % - Hardness in BHN - 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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