

Material: ASTM A240 UNS N08904

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 %	0.020 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.045 max.		
Sulphur	S %	0.035 max.		
Chromium	Cr %	19.000 - 23.000		
Nickel	Ni %	23.000 - 28.000		
Molybdenum	Mo %	4.000 - 5.000		
Nitrogen	N %	0.100 max.	Mechanical Properties	
Copper	Cu %	1.000 - 2.000		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Tensile Strength in Mpa	490 min.
			Yield Strength in Mpa	220 min.
			Elongation in %	35 min.
			Reduction of Area in %	-
			Hardness in HB	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SUS 890L	JIS	Japan	Steel, Plate, Sheet and Strip
TU Z 1 NCDU 25 20 04	AFNOR NF	France	Steel and Tube
X1NiCrMoCu25 20 5	EN	European Union	Forging
X1NiCrMoCu25-20-5	UNI	Italy	Steel, Plate, Sheet and Strip
X1NiCrMoCu25 20 5	DIN	Germany	Rolling and Forging
STS 890L	KS	Korea	Steel, Plate, Sheet and Strip
2CuMoCrNi 250	STAS	Romania	Steel

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