

Material: ASTM A 240 Type XM-18

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 240 Type XM-18 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.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	7.500 - 9.000		
Phosphorus	P %	0.045 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	17.500 - 22.000		
Molybdenum	Mo %	2.000 - 3.000		
Nickel	Ni %	5.000 - 7.000		
Nitrogen	N %	0.250 - 0.500		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	620 min.
-	-	-	Yield Strength in Mpa	345 min.
-	-	-	Elongation in %	40 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	241 max.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S21600	ASTM	USA	Steel, Plate, Sheet and Strip
S21600	UNS	USA	Steel
XM-17	SAE	USA	Steel
A492 Type XM-17	ASTM	USA	Steel and Wire
A959 Type XM-17	ASTM	USA	Steel
A959 Type XM-18	ASTM	USA	Steel
XM-18	SAE	USA	Steel

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