

Material: ASTM A 182 F XM-19

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 182 F XM-19 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, Pipe and Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.060 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	4.000 - 6.000		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	20.500 - 23.500		
Molybdenum	Mo %	1.500 - 3.000		
Nickel	Ni %	11.500 - 13.500		
Vanadium	V %	0.100 - 0.300		
Niobium	Nb %	0.100 - 0.300		
Nitrogen	N %	0.200 - 0.400	Mechanical Properties	
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
			Tensile Strength in Mpa	690 min.
			Yield Strength in Mpa	380 min.
			Elongation in %	35 min.
			Reduction of Area in %	-
			Hardness in BHN	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S20910	ASTM	USA	Steel, Plate, Sheet and Strip
20910	UNS	USA	Steel
5764	AMS	USA	Steel, Bar, Wire, Extrusion and Forging
XM-19	SAE	USA	Steel
A358 XM-19	ASTM	USA	Steel and Pipe
A479 XM-19	ASTM	USA	Steel and Bar
A314 XM-19	ASTM	USA	Steel, Rolling and Forging

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