

Material: AMS 5764

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: AMS 5764 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, Bar, Wire, Extrusion and Forging

Chemical Composition		
Carbon	C %	0.060 max.
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
Titanium	Ti %	0.020 max.
Zirconium	Zr %	0.020 max.
Aluminium	Al %	0.020 max.
Nitrogen	N %	0.200 - 0.400
Iron	Fe %	Balance
-	-	-
-	-	-

Heat Treatment	
Solution Annealing	

Mechanical Properties	
Tensile Strength in Mpa	690 min.
Yield Strength in Mpa	379 min.
Elongation in %	35 min.
Reduction of Area in %	-
Hardness in HRC	20 min.
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
XM-19	SAE	USA	Steel
A358 XM-19	ASTM	USA	Steel and Pipe
A479 XM-19	ASTM	USA	Steel and Bar
A182 F XM-19	ASTM	USA	Steel, Pipe and Forging
A314 XM-19	ASTM	USA	Steel, Rolling and Forging

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