

Material - ASME SA-376

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: ASME SA-376 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 and Pipe

Chemical Composition			Heat Treatment	
Carbon	C %	0.030 max.	Solution Annealing	
Silicon	Si %	0.750 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	18.000 - 20.000		
Molybdenum	Mo %	4.000 - 5.000		
Nickel	Ni %	13.500 - 17.500	Mechanical Properties	
Copper	Cu %	0.750 max.	Tensile Strength in Mpa	515 min.
Nitrogen	N %	0.100 max.	Yield Strength in Mpa	205 min.
Iron	Fe %	Balance	Elongation in %	25 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S31725	ASTM	USA	Steel, Plate, Sheet and Strip
A358 S31725	ASTM	USA	Steel
A403 WP S31725	ASTM	USA	Steel and Pipe
A943 S31725	ASTM	USA	Steel and Pipe
SA-312 UNS S31725	ASME	USA	Steel and Pipe
SA-409 UNS S31725	ASME	USA	Steel and Pipe
A240 S31726	ASTM	USA	Steel

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Customer Care: +91-99090 45075 Email: info@icastllp.com