

Material: ASTM A 959 S32003

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 959 S32003 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

Chemical Composition		
Carbon	C %	0.030 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.030 max.
Sulphur	S %	0.020 max.
Chromium	Cr %	19.500 - 22.500
Nickel	Ni %	3.000 - 4.000
Molybdenum	Mo %	1.500 - 2.000
Nitrogen	N %	0.140 - 0.200
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
	Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	655 min.
Yield Strength in Mpa	450 min.
Elongation in %	25 min.
Reduction of Area in %	-
Hardness in HB	290 max.
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S32003	ASTM	USA	Steel, Plate, Sheet and Strip
S32003	UNS	USA	Steel
A789 S32003	ASTM	USA	Steel and Tube
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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