GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A 176 S32803

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 176 S32803 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, Sheet, Plate and Strip

Chemical Composition		
Carbon	C %	0.015 max.
Silicon	Si %	0.550 max.
Manganese	Mn %	0.500 max.
Phosphorus	P %	0.020 max.
Sulphur	S %	0.005 max.
Chromium	Cr %	28.000 - 29.000
Nickel	Ni %	3.000 - 4.000
Molybdenum	Mo %	1.800 - 2.500
Nitrogen	N %	0.020 max.
Niobium	Nb %	0.150 - 0.500
C + N	C% + N%	0.030 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	600 min.
Yield Strength in Mpa	500 min.
Elongation in %	16 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 S32803	ASTM	USA	Steel, Plate, Sheet and Strip
S32803	UNS	USA	Steel
A959 S32803	ASTM	USA	Steel
SA-240 UNS S32803	ASME	USA	Steel
-	-	-	-
-	-	-	-
-	-	-	-

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com