



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A 791 Grade 25-4-4

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 791 Grade 25-4-4 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 Tube

Chemical Composition			Heat Treatment			
Carbon	C %	0.025 max.	Annealing or Hardening + Tempering			
Silicon	Si %	0.750 max.				
Manganese	Mn %	1.000 max.				
Phosphorus	P %	0.040 max.				
Sulphur	S %	0.030 max.				
Chromium	Cr %	24.500 - 26.000				
Molybdenum	Mo %	3.500 - 4.500				
Nickel	Ni %	3.500 - 4.500				
Nitrogen	N %	0.035 max.				
Titanium	Ti %	0.800 max.				
Iron	Fe %	Balance	<th colspan="2">Mechanical Properties</th>		Mechanical Properties	
-	-	-	Tensile Strength in Mpa	620 min.		
-	-	-	Yield Strength in Mpa	515 min.		
-	-	-	Elongation in %	12 min.		
-	-	-	Reduction of Area in %	-		
-	-	-	Hardness in HRC	30 max.		
-	-	-	Impact in Joule	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S44635	ASTM	USA	Steel, Plate, Sheet and Strip
S11635	UNS	USA	Steel
A176 S44635	ASTM	USA	Steel, Sheet, Plate and Strip
SA-240 UNS S44635	ASME	USA	Steel
A268 25-4-4	ASTM	USA	Steel and Tube
A791 Grade 25-4-4	ASTM	USA	Steel and Tube
A959 Type 25-4-4	ASTM	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

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