



## Material - ASTM A791 Grade 29-4-2

### Standard Specification for Unannealed Ferritic Stainless Steel Tubing

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A791 Grade 29-4-2 Unannealed Ferritic Stainless Steel Tubing

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Tube

Chemical Composition			Heat Treatment	
Carbon	C %	0.010 max.	Normalising or Annealing or Hardening + Tempering	
Silicon	Si %	0.200 max.		
Manganese	Mn %	0.300 max.		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	28.000 - 30.000		
Molybdenum	Mo %	3.500 - 4.200		
Nickel	Ni %	2.000 - 2.500		
Nitrogen	N %	0.020 max.		
Cu+Ni	Cu% + Ni%	2.500 max.		
Copper	Cu %	0.150 max.	<b>Mechanical Properties</b> Tensile Strength in Mpa   550 min. Yield Strength in Mpa   415 min. Elongation in %   20 min. Reduction of Area in %   - Hardness in HB   541 max. Impact in Joule   -	
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
S44800	UNS	USA	Plate, Sheet and Strip
A268 29-4-2	ASTM	USA	Plate, Sheet and Strip
A497 S44800	ASTM	USA	Plate, Bar and Forging
A511 29-4-2	ASTM	USA	Tube
SA-731 29-4-2	ASME	USA	Casting
SA-240 Type 29-4-2	ASME	USA	Plate, Sheet and Strip
A731 29-4-2	ASTM	USA	Casting

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

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