



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A497 S44800

Standard Specification for Hot and Cold Finished Bars of Stainless Steel for Use in Boiler and Pressure Vessel Construction

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A497 S44800 Hot and Cold Finished Bars of Stainless Steel for Use in Boiler and Pressure Vessel Construction

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

Grade Belongs to the Industry - Plate, Sheet and Strip

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	Mechanical Properties	
C+N	C % + N %	0.025 max.	Tensile Strength in Mpa	485 min.
Nitrogen	N %	0.020 max.	Yield Strength in Mpa	380 min.
Copper	Cu %	0.150 max.	Elongation in %	20 min.
Iron	Fe %	Balance	Reduction of Area in %	40 min.
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

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
SA-731 29-4-2	ASME	USA	Casting
A511 29-4-2	ASTM	USA	Tube
A791 Grade 29-4-2	ASTM	USA	Plate, Sheet and Strip
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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

ONE STOP SOLUTION FOR METAL PARTS