GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-249 S31254

Standard Specification for Welded Austenitic Steel Boiler, Superheater, Heat-Exchanger, and Condenser Tubes

Group - Ferrous Stainless Steel Alloys

Sub Group - ASME SA-249 S31254 Welded Austenitic Steel Boiler, Superheater, Heat-Exchanger, and Condenser Tubes

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

Grade Belongs to the Industry - Tubing

Chemical Composition		
Carbon	C %	0.020 max.
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.030 max.
Sulphur	S %	0.010 max.
Silicon	Si %	0.800 max.
Chromium	Cr %	19.500 - 20.500
Nickel	Ni %	17.500 - 18.500
Molybdenum	Mo %	6.000 - 6.500
Nitrogen	N %	0.180 - 0.250
Copper	Cu %	0.500 - 1.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	675 min.
Yield Strength in Mpa	310 min.
Elongation in %	35 min.
Reduction of Area in %	-
Hardness in BHN	245 max.
Impact in Joule	-

www.gravitycastindia.com

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
A 249 S31254	ASTM	USA	Steel and Tubing
A 167 S31254	ASTM	USA	Plate, Sheet and Strip
A 213 S31254	ASTM	USA	Steel and Tubing
A 814 S31254	ASTM	USA	Steel and Pipe
A 959 S31254	ASTM	USA	Steel
A 988 S31254	ASTM	USA	Steel
A 276 S31254	ASTM	USA	Bars and Shapes

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.