GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-249 S31266

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

Group - Ferrous Stainless Steel Alloys

Sub Group - ASME SA-249 S31266 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 %	0.030 max.
Manganese	Mn %	2.000 - 4.000
Phosphorus	P %	0.035 max.
Sulphur	S %	0.020 max.
Silicon	Si %	1.000 max.
Chromium	Cr %	23.000 - 25.000
Nickel	Ni %	21.000 - 24.000
Molybdenum	Mo %	5.200 - 6.200
Nitrogen	N %	0.350 - 0.600
Copper	Cu %	1.000 - 2.500
Tungsten	W %	1.000 - 2.500
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	750 min.
Yield Strength in Mpa	420 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**
S31266	UNS	USA	Steel
SA-240 S31266	ASME	USA	Plate, Sheet and Strip
SA-182 F58	ASME	USA	Steel and Pipe
SA-182 S31266	ASME	USA	Steel and Pipe
A 959 S31266	ASTM	USA	Steel
A 240 S31266	ASTM	USA	Plate, Sheet and Strip
A 358 S31266	ASTM	USA	Steel and Pipe

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.