GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A249 TP310HCb

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

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A249 TP310HCb 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 - Steel and Tubes

Chemical Composition		
Carbon	C %	0.040 - 0.100
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.045 max.
Sulphur	S %	0.030 max.
Silicon	Si %	1.000 max.
Chromium	Cr %	24.000 - 26.000
Nickel	Ni %	19.000 - 22.000
Niobium	Nb %	0.010 - 1.100
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	515 min.
Yield Strength in Mpa	205 min.
Elongation in %	35 min.
Reduction of Area in %	-
Hardness in HRB	90 max.
Impact in Joule	-

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
J 405 309HCb	SAE	USA	Steel
SA-249 TP310HCb	ASME	USA	Steel and Tubing
A 312 TP310HCb	ASTM	USA	Steel and Pipe
A 213 TP310HCb	ASTM	USA	Steel and Tubing
A 959 Type 310HCb	ASTM	USA	Steel
A 240 Type 310H	ASTM	USA	Plate, Sheet and Strip
A 312 TP310H	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.