GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-249 Type 800H

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

Group - Ferrous Stainless Steel Alloys

Sub Group - ASME SA-249 Type 800H 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 %	0.050 - 0.100
Manganese	Mn %	1.500 max.
Phosphorus	P %	0.045 max.
Sulphur	S %	0.015 max.
Silicon	Si %	1.000 max.
Chromium	Cr %	19.000 - 23.000
Nickel	Ni %	30.000 - 35.000
Copper	Cu %	0.750 max.
Aluminium	Al %	0.150 - 0.600
Titanium	Ti %	0.150 - 0.600
Iron	Fe %	39.500 min.
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	450 min.
Yield Strength in Mpa	170 min.
Elongation in %	30 min.
Reduction of Area in %	-
Hardness in HB	183 max.
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
N08810	UNS	USA	Steel
G 4902 NCF 800H	JIS	Japan	Sheet and Plate
G 3467 NCF 800 HTF	JIS	Japan	Steel and Tubing
G 4903 NCF 800 HTP	JIS	Japan	Steel and Pipe
A 240 Type 800H	ASTM	USA	Plate, Sheet and Strip
A 959 Type 800H	ASTM	USA	Steel
A 358 N08810	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

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