GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-213 N08811

Standard Specification for Seamless Ferritic and Austenitic Alloy-Steel Boiler, Superheater, and Heat-Exchanger Tubes

Group - Ferrous Stainless Steel Alloys

Sub Group - ASME SA-213 N08811 Seamless Ferritic and Austenitic Alloy-Steel Boiler, Superheater, and Heat-Exchanger Tubes

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

Grade Belongs to the Industry - Tubing

Chemical Composition		
Carbon	C %	0.060 - 0.100
Manganese	Mn %	1.500 max.
Phosphorus	P %	0.040 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
Al + Ti	Al% + Ti%	0.850 - 1.200
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 BHN	192 max.
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
N08810	UNS	USA	Steel
G 3467 NCF 800 HTF	JIS	Japan	Steel and Tubing
G 4901 NCF 800H	JIS	Japan	Steel and Bars
G 4904 NCF 800 HTB	JIS	Japan	Steel and Tubing
A 959 Type 800H	ASTM	USA	Steel
A 358 N08810	ASTM	USA	Steel and Pipe
A 959 N08811	ASTM	USA	Steel

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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