GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-213 Grade 800

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 Grade 800 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 %	0.100 max.
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	515 min.
Yield Strength in Mpa	205 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**
N08800	UNS	USA	Steel
A 959 Type 800	ASTM	USA	Steel
A 240 N08800	ASTM	USA	Plate, Sheet and Strip
A 358 N08800	ASTM	USA	Steel
SA-182 Grade FNIC	ASME	USA	Forging
G 4902 NCF 800	JIS	Japan	Sheet and Plate
G 3467 NCF 800 HTF	JIS	Japan	Steel and Tubing

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.