GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-182 Grade FNIC

Standard Specification for Forged or Rolled Alloy and Stainless Steel Pipe Flanges, Forged Fittings and Valves and Parts for High-Temperature Service

Group - Ferrous Stainless Steel Alloys

Sub Group - ASME SA-182 Grade F FNIC Forged or Rolled Alloy and Stainles Steel Pipe Flanges, Forged Fittings and Valves and Parts for Hogh-Temperature Service

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

Grade Belongs to the Industry - Pipe and Forging

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.
Nickel	Ni %	30.000 - 35.000
Chromium	Cr %	19.000 - 23.000
Titanium	Ti %	0.150 - 0.600
Aluminium	Al %	0.150 - 0.600
Copper	Cu %	0.750 max.
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	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
N08800	UNS	USA	Steel
G 4904 NCF 800 HTB	JIS	Japan	Steel andb Tubing
G 4902 NCF 800H	JIS	Japan	Sheet and Plate
A 959 Type 800H	ASTM	USA	Steel
A 959 Type 800	ASTM	USA	Steel
A 358 N08800	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

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.