



**GRAVITY CAST PVT. LTD.**  
GRAVITY GROUP OF COMPANIES

## Material - ASTM A 182 F 904L

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

**Group - Non-Ferrous Nickel Alloys**

**Sub Group - ASTM A 182 F 904L Forged or Rolled Alloy and Stainless Steel Pipe Flanges, Forged Fittings, and Valves and Parts for High-Temperature Service**

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

**Grade Belongs to the Industry - Pipe Flanges, Forged Fittings and Valves**

Chemical Composition			Heat Treatment	
Carbon	C %	0.020 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.		
Chromium	Cr %	19.000 - 23.000		
Sulphur	S %	0.035 max.		
Molybdenum	Mo %	4.000 - 5.000		
Phosphorus	P %	0.040 max.		
Copper	Cu %	1.000 - 2.000		
Nitrogen	N %	0.100 max.		
Nickel	Ni %	23.000 - 28.000		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa      490 min. Yield Strength in Mpa      215 min. Elongation in %      35 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
B 649 N08904	ASTM	USA	Bar and Wire
A 213 N08904	ASTM	USA	Tube
A 249 N08904	ASTM	USA	Tube
A 269 N08904	ASTM	USA	Tube
A 312 N08904	ASTM	USA	Pipe
A 511 N08904	ASTM	USA	Bar
A 965 N08904	ASTM	USA	Forging

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto: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.

**ONE STOP SOLUTION FOR METAL PARTS**