

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		
Carbon	C %	0.020 max.
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
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
As-Cast or Annealing or Age Hardning	

Mechanical Properties	
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	-

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

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