



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

## Material - ASTM B 834 N08367

**Standard Specification for Pressure Consolidated Powder Nickel Alloy Pipe Flanges, Fittings, Valves, and Parts**

**Group - Non-Ferrous Nickel Alloys**

**Sub Group - ASTM B 834 N08367 Pressure Consolidated Powder Nickel Alloy Pipe Flanges, Fittings, Valves, and Parts**

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

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

Chemical Composition			Heat Treatment	
Carbon	C %	0.030 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.		
Copper	Cu %	0.750 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	20.000 - 22.000		
Phosphorus	P %	0.040 max.		
Molybdenum	Mo %	6.000 - 7.000		
Nitrogen	N %	0.180 - 0.250		
Nickel	Ni %	23.500 - 25.500		
Iron	Fe %	Balance	<b>Mechanical Properties</b>	
-	-	-	Tensile Strength in Mpa	655 min.
-	-	-	Yield Strength in Mpa	310 min.
-	-	-	Elongation in %	30 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 564 N08367	ASTM	USA	Forging
B 688 N08367	ASTM	USA	Plate, Sheet and Strip
B 691 N08367	ASTM	USA	Rod, Bar and Wire
B 462 N08367	ASTM	USA	Pipe Flanges, Forged Fittings, and Valve
A 314 N08367	ASTM	USA	Bar and Forging
B 472 N08367	ASTM	USA	Billet and Bar
B 690 N08367	ASTM	USA	Pipe and Tube

**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**