



## Material - ASME SB-564 N08031

### Standard Specification for Nickel Alloy Forgings

Group - Non-Ferrous Nickel Alloys

Sub Group - ASME SB-564 N08031 Nickel Alloy Forgings

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

Grade Belongs to the Industry - Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.015 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.300 max.		
Manganese	Mn %	2.000 max.		
Chromium	Cr %	26.000 - 28.000		
Sulphur	S %	0.010 max.		
Molybdenum	Mo %	6.000 - 7.000		
Phosphorus	P %	0.020 max.		
Nitrogen	N %	0.150 - 0.250		
Copper	Cu %	1.000 - 1.400		
Nickel	Ni %	30.000 - 32.000		
Iron	Fe %	Balance	<b>Mechanical Properties</b> Tensile Strength in Mpa      650 min. Yield Strength in Mpa      276 min. Elongation in %      40 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 564 N08031	ASTM	USA	Forging
B 472 N08031	ASTM	USA	Billets and Bars
B 649 N08031	ASTM	USA	Bar and Wire
B 462 N08031	ASTM	USA	Pipe Flanges, Forged Fittings and Valve
B 619 N08031	ASTM	USA	Pipe
B 622 N08031	ASTM	USA	Pipe and Tube
B 626 N08031	ASTM	USA	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)**

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