



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM B 564 N06617

Standard Specification for Nickel Alloy Forgings

Group - Non-Ferrous Nickel Alloys

Sub Group - B 564 N06617 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 %	0.050 - 0.150	As-Cast or Annealing or Age Hardning	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Chromium	Cr %	20.000 - 24.000		
Sulphur	S %	0.015 max.		
Molybdenum	Mo %	8.000 - 10.000		
Aluminium	Al %	0.800 - 1.500		
Copper	Cu %	0.500 max.		
Iron	Fe %	3.000 max.		
Titanium	Ti %	0.600 max.		
Cobalt	Co %	10.000 - 15.000	Mechanical Properties	
Boron	B %	0.006 max.	Tensile Strength in Mpa	655 min.
Nickel	Ni %	44.500 min.	Yield Strength in Mpa	241 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 166 N06617	ASTM	USA	Rod, Bar and Wire
B 167 N06617	ASTM	USA	Pipe and Tube
B 168 N06617	ASTM	USA	Plate, Sheet and Strip
B 626 N06617	ASTM	USA	Tube
B 546 N06617	ASTM	USA	Pipe
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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.

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