



## Material - ASTM B 564 N06603

### Standard Specification for Nickel Alloy Forgings

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM B 564 N06603 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 %	0.200 - 0.400	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.500 max.		
Manganese	Mn %	0.150 max.		
Chromium	Cr %	24.000 - 26.000		
Sulphur	S %	0.010 max.		
Copper	Cu %	0.500 max.		
Aluminium	Al %	2.400 - 3.000		
Titanium	Ti %	0.010 - 0.250		
Phosphorus	P %	0.020 max.		
Iron	Fe %	8.000 - 11.000		
Zirconium	Zr %	0.010 - 0.100	<b>Mechanical Properties</b> Tensile Strength in Mpa      650 min. Yield Strength in Mpa      300 min. Elongation in %      25 min. Reduction of Area in %      - Hardness in BHN      - Impact in Joule      -	
Yttrium	Y %	0.010 - 0.150		
Nickel	Ni %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 163 N06603	ASTM	USA	Tube
N06603	UNS	USA	Tube
B 166 N06603	ASTM	USA	Rod, Bar and Wire
B 167 N06603	ASTM	USA	Pipe and Tube
B 168 N06603	ASTM	USA	Plate, Sheet and Strip
B 516 N06603	ASTM	USA	Tube
B 517 N06603	ASTM	USA	Pipe

**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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