



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

## Material - ASTM B 564 N08825

### Standard Specification for Nickel Alloy Forgings

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM B 564 N08825 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 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.500 max.		
Manganese	Mn %	1.000 max.		
Chromium	Cr %	19.500 - 23.500		
Sulphur	S %	0.030 max.		
Molybdenum	Mo %	2.500 - 3.500		
Aluminium	Al %	0.200 max.		
Titanium	Ti %	0.600 - 1.200		
Copper	Cu %	1.500 - 3.000		
Iron	Fe %	22.000 max.		
Nickel	Ni %	38.000 - 46.000	<b>Mechanical Properties</b> Tensile Strength in Mpa   586 min. Yield Strength in Mpa   241 min. Elongation in %   30 min. Reduction of Area in %   - Hardness in BHN   - Impact in Joule   -	
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-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 163 N08825	ASTM	USA	Tube
B 423 N08825	ASTM	USA	Pipe and Tube
B 704 N08825	ASTM	USA	Tube
B 705 N08825	ASTM	USA	Pipe
SB-163 N08825	ASME	USA	Tube
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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](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.

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