



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

## Material - ASTM B 704 N08825

### Standard Specification for Nickel Alloy Tubes

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM B 704 N08825 Nickel Alloy Tubes

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

Grade Belongs to the Industry - Tube

Chemical Composition			Heat Treatment	
Carbon	C %	0.050 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.050 max.		
Manganese	Mn %	1.000 max.		
Copper	Cu %	1.500 - 3.000		
Sulphur	S %	0.030 max.		
Chromium	Cr %	19.500 - 23.500		
Aluminium	Al %	0.200 max.		
Molybdenum	Mo %	2.500 - 3.500		
Titanium	Ti %	0.600 - 1.200	Mechanical Properties	
Iron	Fe %	22.000 max.	Tensile Strength in Mpa	586 min.
Nickel	Ni %	38.000 - 46.000	Yield Strength in Mpa	240 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 163 N08825	ASTM	USA	Tube
B 423 N08825	ASTM	USA	Pipe and Tube
B 564 N08825	ASTM	USA	Forging
B 705 N08825	ASTM	USA	Pipe
SB-163 N08825	ASME	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)**

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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