



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

## Material - ASTM B 704 N06625

### Standard Specification for Nickel Alloy Tubes

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM B 704 N06625 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 %	0.100 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.500 max.		
Manganese	Mn %	0.500 max.		
Cobalt	Co %	1.000 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	20.000 - 23.000		
Aluminium	Al %	0.400 max.		
Molybdenum	Mo %	8.000 - 10.000		
Iron	Fe %	5.000 max.	Mechanical Properties	
Phosphorus	P %	0.015 max.	Tensile Strength in Mpa	690 min.
Titanium	Ti %	0.400 max.	Yield Strength in Mpa	276 min.
Nb + Ta	Nb% + Ta%	3.150 - 4.150	Elongation in %	30 min.
Nickel	Ni %	58.000 min.	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 443 N06625 Grade 1	ASTM	USA	Plate, Sheet and Strip
B 443 N06625 Grade 2	ASTM	USA	Plate, Sheet and Strip
B 444 N06625 Grade 1	ASTM	USA	Pipe and Tube
B 444 N06625 Grade 2	ASTM	USA	Pipe and Tube
B 446 N06625	ASTM	USA	Rod and Bar
B 705 N06625 Grade 1	ASTM	USA	Pipe
B 705 N06625 Grade 2	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)**

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.

**ONE STOP SOLUTION FOR METAL PARTS**