



Material - ASTM B 705 N06625 Grade 1

Standard Specification for Nickel Alloy Pipe

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM B 705 N06625 Grade 1 Nickel Alloy Pipe

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

Grade Belongs to the Industry - Pipe

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	827 min.
Titanium	Ti %	0.400 max.	Yield Strength in Mpa	414 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 704 N06625	ASTM	USA	Tube
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

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