



## Material - ASTM B 444 N06625 Grade 1

### Standard Specification for Nickel-Chromium-Molybdenum-Columbium Alloys and Nickel-Chromium-Molybdenum-Silicon Alloy Pipe and Tube

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM B 444 N06625 Grade 1 Nickel-Chromium-Molybdenum-Columbium Alloys and Nickel-Chromium-Molybdenum-Silicon Alloy Pipe and Tube

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

Grade Belongs to the Industry - Pipe and 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.		
Chromium	Cr %	20.000 - 23.000		
Sulphur	S %	0.015 max.		
Phosphorus	P %	0.0150 max.		
Nb + Ta	Nb% + Ta%	3.150 - 4.150		
Cobalt	Co %	1.000 max.	<b>Mechanical Properties</b> Tensile Strength in Mpa      827 min. Yield Strength in Mpa      414 min. Elongation in %      30 min. Reduction of Area in %      - Hardness in BHN      - Impact in Joule      -	
Molybdenum	Mo %	8.000 - 10.000		
Iron	Fe %	5.000 max.		
Aluminium	Al %	0.400 max.		
Titanium	Ti %	0.400 max.		
Nickel	Ni %	58.000 min.		
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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 2	ASTM	USA	Pipe and Tube
B 446 N06625	ASTM	USA	Rod and Bar
B 704 N06625	ASTM	USA	Tube
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)**

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