



## Material - ASTM B 444 N06219

### 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 N06219 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 %	0.050 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.700 - 1.100		
Manganese	Mn %	0.500 max.		
Chromium	Cr %	18.000 - 22.000		
Sulphur	S %	0.010 max.		
Copper	Cu %	0.500 max.		
Iron	Fe %	2.000 - 4.000		
Molybdenum	Mo %	7.000 - 9.000		
Cobalt	Co %	1.000 max.		
Aluminium	Al %	0.500 max.		
Titanium	Ti %	0.500 max.	<b>Mechanical Properties</b> Tensile Strength in Mpa      660 min. Yield Strength in Mpa      270 min. Elongation in %      50 min. Reduction of Area in %      - Hardness in BHN      - Impact in Joule      -	
Phosphorus	P %	0.020 max.		
Nickel	Ni %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 446 N06219	ASTM	USA	Rod and Bar
B 443 N06219	ASTM	USA	Plate, Sheet and Strip
B 564 N06219	ASTM	USA	Forging
B 704 N06219	ASTM	USA	Tube
B 705 N06219	ASTM	USA	Pipe
SB-443 N06219	ASME	USA	Plate, Sheet and Strip
SB-444 N06219	ASME	USA	Pipe and 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)**

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