



Material - ASTM B 443 N06625 Grade 1

Standard Specification for Nickel-Chromium-Molybdenum-Columbium Alloy and Nickel-Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM B 443 N06625 Grade 1 Nickel-Chromium-Molybdenum-Columbium Alloy and Nickel-Chromium-M

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

Grade Belongs to the Industry - Plate, Sheet and Strip

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.	Mechanical Properties Tensile Strength in Mpa 758 min. Yield Strength in Mpa 379 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.		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
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 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

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.