



Material - ASTM B 517 N06045

Standard Specification for Nickel-Chromium-Iron Alloy Pipe

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM B 517 N06045 Nickel-Chromium-Iron 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 %	0.050 - 0.120	As-Cast or Annealing or Age Hardning	
Silicon	Si %	2.500 - 3.000		
Manganese	Mn %	1.000 max.		
Copper	Cu %	0.300 max.		
Sulphur	S %	0.010 max.		
Chromium	Cr %	26.000 - 29.000		
Iron	Fe %	21.000 - 25.000		
Phosphorus	P %	0.020 max.		
Cerium	Ce %	0.030 - 0.090		
Nickel	Ni %	45.000 min.		
-	-	-	Mechanical Properties Tensile Strength in Mpa 620 min. Yield Strength in Mpa 240 min. Elongation in % 30 min. Reduction of Area in % - Hardness in BHN - Impact in Joule -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 163 N06025	ASTM	USA	Tube
B 166 N06025	ASTM	USA	Rod, Bar and Wire
B 167 N06025	ASTM	USA	Pipe and Tube
B 168 N06025	ASTM	USA	Plate, Sheet and Strip
B 564 N06025	ASTM	USA	Forging
B 516 N06025	ASTM	USA	Tube
B 462 N06025	ASTM	USA	Pipe and Valve

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.