

Material: ASTM B 516 N06045

Standard Specification for Nickel-Chromium-Iron Alloy Tubes

Group: Non-Ferrous Nickel Alloys

Sub Group: ASTM B 516 N06045 Nickel-Chromium-Iron Alloy Tubes

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

Grade Belongs to the Industry: Tube

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 517 N06025	ASTM	USA	Pipe
B 462 N06025	ASTM	USA	Pipe and Valve

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