



Material - ASTM B 517 N06603

Standard Specification for Nickel-Chromium-Iron-Alloy Pipe

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM B 517 N06603 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 %	0.200 - 0.400	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.500 max.		
Manganese	Mn %	0.150 max.		
Copper	Cu %	0.500 max.		
Sulphur	S %	0.010 max.		
Chromium	Cr %	24.000 - 26.000		
Aluminium	Al %	2.400 - 3.000		
Phosphorus	P %	0.020 max.		
Titanium	Ti %	0.010 - 0.250	Mechanical Properties	
Iron	Fe %	8.000 - 11.000	Tensile Strength in Mpa	650 min.
Zirconium	Zr %	0.010 - 0.400	Yield Strength in Mpa	300 min.
Yttrium	Y %	0.010 - 0.150	Elongation in %	25 min.
Nickel	Ni %	Balance	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 163 N06603	ASTM	USA	Tube
N06603	UNS	USA	Tube
B 166 N06603	ASTM	USA	Rod, Bar and Wire
B 167 N06603	ASTM	USA	Pipe and Tube
B 168 N06603	ASTM	USA	Plate, Sheet and Strip
B 516 N06603	ASTM	USA	Tube
B 564 N06603	ASTM	USA	Forging

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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