



Material - ASME SB-166 N06690

Standard Specification for Nickel-Chromium-Iron Alloys and Nickel-Chromium-Cobalt-Molybdenum Alloy Rod, Bar and Wire

Group - Non-Ferrous Nickel Alloys

Sub Group - ASME SB-166 N06690 Nickel-Chromium-Iron Alloys and Nickel-Chromium-Cobalt-Molybdenum Alloy Rod, Bar and Wire

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

Grade Belongs to the Industry - Rod, Bar and Wire

Chemical Composition			Heat Treatment	
Carbon	C %	0.050 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.500 max.		
Manganese	Mn %	0.500 max.		
Copper	Cu %	0.500 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	27.000 - 31.000		
Iron	Fe %	7.000 - 11.000		
Nickel	Ni %	58.000 min.		
-	-	-		
-	-	-		
			Mechanical Properties	
-	-	-	Tensile Strength in Mpa	552 - 1138
-	-	-	Yield Strength in Mpa	240 min.
-	-	-	Elongation in %	5 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	75 - 100
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 163 N06690	ASTM	USA	Tube
B 166 N06690	ASTM	USA	Rod, Bar and Wire
B 167 N06690	ASTM	USA	Pipe and Tube
B 168 N06690	ASTM	USA	Plate, Sheet and Strip
B 564 N06690	ASTM	USA	Forging
B 834 N06690	ASTM	USA	Pipe
N06690	UNS	USA	Sheet

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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