

Material: ASTM B 163 N06690

Standard Specification for Seamless Nickel and Nickel Alloy Condenser and Heat-Exchanger Tube

Group: Non-Ferrous Nickel Alloys

Sub Group: ASTM B 163 N06690 Seamless Nickel and Nickel Alloy Condenser and Heat-Exchanger Tube

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 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	586 - 793
-	-	-	Yield Strength in Mpa	241 - 448
-	-	-	Elongation in %	4 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HRC	19 - 98
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
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
SB-166 N06690	ASME	USA	Rod, Bar and Wire

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