

Material: ASTM B 163 N08811

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

Group: Non-Ferrous Nickel Alloys

Sub Group: ASTM B 163 N08811 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 %	0.060 - 0.100	As-Cast or Annealing or Age Hardning	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.500 max.		
Copper	Cu %	0.750 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	19.000 - 23.000		
Aluminium	Al %	0.150 - 0.600		
Titanium	Ti %	0.150 - 0.600		
Iron	Fe %	39.500 max.		
			Mechanical Properties	
Al + Ti	Al % + Ti %	0.850 - 1.200	Tensile Strength in Mpa	448 min.
Nickel	Ni %	30.000 - 35.000	Yield Strength in Mpa	172 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 407 N08811	ASTM	USA	Pipe and Tube
B 408 N08811	ASTM	USA	Rod and Bar
B 409 N08811	ASTM	USA	Plate, Sheet and Strip
B 564 N08811	ASTM	USA	Forging
SB-163 N08811	ASME	USA	Tube
N08811	UNS	USA	Tube
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