

# Material: UNS N08801

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

**Group:** Non-Ferrous Nickel Alloys

**Sub Group:** UNS N08801 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 %	0.100 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.500 max.		
Chromium	Cr %	19.000 - 22.000		
Copper	Cu %	0.500 max.		
Sulphur	S %	0.015 max.		
Titanium	Ti %	0.750 - 1.500		
Iron	Fe %	39.500 max.		
Nickel	Ni %	30.000 - 35.000		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	448 min.
-	-	-	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 163 N08801	ASTM	USA	Tube
B 407 N08801	ASTM	USA	Pipe and Tube
SB-163 N08801	ASME	USA	Tube
SB-407 N08801	ASTM	USA	Pipe and Tube
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