

# Material: ASTM B 163 N04400

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

**Group:** Non-Ferrous Nickel Alloys

**Sub Group:** ASTM B 163 N04400 Seamless Nickel and Nickel Alloy Condenser and Heat-Exchanger Tubes

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

**Grade Belongs to the Industry:** Tube

Chemical Composition		
Carbon	C %	0.300 max.
Silicon	Si %	0.500 max.
Manganese	Mn %	2.000 max.
Copper	Cu %	28.000 - 34.000
Sulphur	S %	0.024 max.
Iron	Fe %	2.500 max.
Nickel	Ni %	63.000 min.
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
As-Cast or Annealing or Age Hardning	

Mechanical Properties	
Tensile Strength in Mpa	483 - 621
Yield Strength in Mpa	193 min.
Elongation in %	3 min.
Reduction of Area in %	-
Hardness in HRC	75 - 97
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 127 N04400	ASTM	USA	Plate, Sheet and Strip
SB 163 N04400	ASTM	USA	Tube
N04400	UNS	USA	Tube
Monel 400	SAE	USA	Sheet, Strip and Plate
B 164 N04400	ASTM	USA	Rod, Bar and Wire
NW4400	JIS	Japan	Plate, Sheet and Strip
B 165 N04400	ASTM	USA	Pipe and Tube

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