Material: ASME SB 163 N04400

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

Group: *Non-Ferrous Nickel Alloys*
Sub Group: *ASME SB 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 163 N04400	ASTM	USA	Tube
B 127 N04400	ASME	USA	Plate, Sheet and Strip
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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