

## Material: ASME SB-163 N04400

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

**Group:** Non-Ferrous Nickel Alloys

**Sub Group:** ASME SB-163 N04400 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 %	0.300 max.	As-Cast or Annealing or Age Hardning	
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.		
-	-	-	<b>Mechanical Properties</b> 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 -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 164 N04400	ASTM	USA	Rod, Bar and Wire
B 165 N04400	ASTM	USA	Pipe and Tube
B 564 N04400	ASTM	USA	Forging
B 127 N04400	ASTM	USA	Plate, Sheet and Strip
B 725 N04400	ASTM	USA	Pipe
SB-163 N04400	ASME	USA	Tube
SB-165 N04400	ASME	USA	Pipe and Tube

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Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)