



## Material - ASME SB-163 N08825

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

Group - Non-Ferrous Nickel Alloys

Sub Group - SB-163 N08825 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 %	0.050 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.050 max.		
Manganese	Mn %	1.000 max.		
Copper	Cu %	1.500 - 3.000		
Sulphur	S %	0.030 max.		
Chromium	Cr %	19.500 - 23.500		
Aluminium	Al %	0.200 max.		
Molybdenum	Mo %	2.500 - 3.500		
Titanium	Ti %	0.600 - 1.200		
Iron	Fe %	22.000 max.		
Nickel	Ni %	38.000 - 46.000		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa   586 - 793 Yield Strength in Mpa   241 min. Elongation in %   5 min. Reduction of Area in %   - Hardness in HRC   25 - 90 Impact in Joule   -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 163 N08825	ASTM	USA	Tube
B 423 N08825	ASTM	USA	Pipe and Tube
B 564 N08825	ASTM	USA	Forging
B 704 N08825	ASTM	USA	Tube
B 705 N08825	ASTM	USA	Pipe
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**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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