



Material - ASTM B 163 N08825

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

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM B 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.		
Silicon	Si %	0.500 max.		
Manganese	Mn %	1.000 max.		
Copper	Cu %	1.500 - 3.000	As-Cast or Annealing or Age Hardning	
Sulphur	S %	0.030 max.		
Chromium	Cr %	19.500 - 23.500		
Aluminium	Al %	0.200 max.		
Titanium	Ti %	0.600 - 1.200		
Molybdenum	Mo %	2.500 - 3.500	Mechanical Properties	
Iron	Fe %	22.000 max.	Tensile Strength in Mpa	586 - 793
Nickel	Ni %	38.000 - 46.000	Yield Strength in Mpa	241 min.
	-	-	Elongation in %	5 min.
	-	-	Reduction of Area in %	-
-	-	-	Hardness in HRC	25 - 90
-	-	-	Impa <mark>ct in Joule</mark>	-

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
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	
SB-163 N08825	ASME	USA	Tube	
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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

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