

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.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.500 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.		
Titanium	Ti %	0.600 - 1.200		
Molybdenum	Mo %	2.500 - 3.500		
Iron	Fe %	22.000 max.		
Nickel	Ni %	38.000 - 46.000	Mechanical Properties 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 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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