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		
Carbon	C %	0.050 max.
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
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Annealing or Age Hardning

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	-

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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-	-	-	-

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