

Material: ASTM B 163 N08800

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

Group: Non-Ferrous Nickel Alloys

Sub Group: ASTM B 163 N08800 Seamless Nickel and Nickel Alloy Condenser and Heat-Exchanger Tubes

Application: Intended for Valve, Pump, General Engineering, Automotive and other Industries

Grade Belongs to the Industry: Tube

Chemical Composition		
Carbon	C %	0.100 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	1.500 max.
Copper	Cu %	0.750 max.
Sulphur	S %	0.015 max.
Chromium	Cr %	19.000 - 23.000
Aluminium	Al %	0.150 - 0.600
Titanium	Ti %	0.150 - 0.600
Iron	Fe %	39.500 max.
Nickel	Ni %	30.000 - 35.000
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-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
As-Cast or Annealing or Age Hardning	

Mechanical Properties	
Tensile Strength in Mpa	448 - 689
Yield Strength in Mpa	207 min.
Elongation in %	4 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 407 N08800	ASTM	USA	Pipe and Tube
B 408 N08800	ASTM	USA	Rod and Bar
B 409 N08800	ASTM	USA	Plate, Sheet and Strip
B 564 N08800	ASTM	USA	Forging
NAS 800	Gravity	India	Sheet
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