HandyTube
Performance That's Seamless.™

Alloy N200

Alloy Designation: (UNS N02200)

Specifications: ASTM B161

Typical Size Ranges: OD (.02"–1.00")

Available Product Forms:

Annealed to Full Hard, in Coiled or Straight form

General Description and Applications:

N200 is an alloy consisting completely or almost entirely of nickel. It is known for its ductility, ability to be easily cold worked, and great resistance to caustic alkaline compounds. Tubing comprised of N200 often sees use in the electronics and chemical processing industries.

Commitment to Quality:

ISO 9001-CERTIFIED

Lloyd's Register LRQA

SHIPBUILDING CERTIFICATIONS

DNV

Lloyd's Register Marine

ABS

BUREAU VERITAS

HIGH PRESSURE APPLICATIONS

TÜV SÜD

AD-2000-Merkblatt-W0

PED 2014 / 68 / EU

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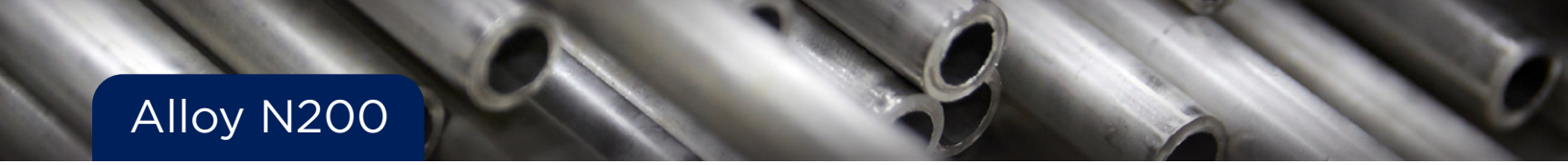

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Chemical Properties as per Specs:

CHEMICAL COMPOSITION BY WEIGHT PERCENT															
Ni	**Cr**	**Fe**	**Mo**	**Al**	**Ti**	**Nb**	**Co**	**Ta**	**Mn**	**Cu**	**N**	**C**	**S**	**Si**	**P**
99.0 Min	-	0.25 Max	-	-	-	-	-	-	0.35 Max	0.4 Max	-	0.15 Max	0.01 Max	0.35 Max	-

PREN CALCULATION AND NUMBER:

- PREN = Cr + 3.3(Mo +0.5W) + 16N
- MIN PREN = 0
- MAX PREN = 0
- PREN Range: 0

MECHANICAL PROPERTIES	
Ultimate Tensile Strength	55 ksi Minimum (380 MPa)
Yield Strength	15 ksi Minimum (105 MPa)
% Elongation to Failure	35% Minimum
Hardness	100 HRB Max
Young's Modulus	28.0x10^6 ksi (193 GPa)

PHYSICAL PROPERTIES	
Density	0.321 lb/in^3 or 8.89 g/cm^3
Melting Point	2615 – 2635°F / 1435 – 1446°C
Coefficient of Thermal Expansion	7.39 (µin/in-°F)
Specific Heat	0.109 BTU/lb-°F
Thermal Conductivity	70.2 (W/m.K)
Electrical Resisitivity	9.6 µΩcm

ANNEALING SUGGESTION:

- N200 is best annealed between the temperatures of 1300-1600 degrees Fahrenheit or 704-871 degrees Celsius.