

STAINLESS STEEL

ALLOY 200

(UNS N02200)

TUBING APPLICATIONS

Alloy 200 is a wrought commercially pure nickel product (99.6%) with excellent mechanical properties and corrosion resistance in neutral to moderately reducing environments. In the annealed state, the alloy possesses the approximate strength of mild steel.

This nickel alloy has low corrosion rates in neutral and distilled water. It can also be hot formed to any shape and formed cold by all methods.

AVAILABLE TUBE PRODUCT FORMS

COILED, SEAMLESS, WELDED

TYPICAL MANUFACTURING SPECIFICATIONS

ASTM B160
ASME SB160

Also individual customer specifications.

TYPICAL APPLICATIONS

Chemical Processing and Storage
Lead Wires
Battery Components
Transducers
Heat Exchangers
Food Processing

INDUSTRIES PREDOMINANTLY USING THIS GRADE

CHEMICAL PROCESSES
OIL AND GAS
PHARMACEUTICAL
AEROSPACE
POWER GENERATION

TECHNICAL DATA

MECHANICAL PROPERTIES

Temper	Annealed	
	Tensile Rm	55-75
Tensile Rm	380-520	MPa (min)
R.p. 0.2% Yield	15-30	ksi (min)
R.p. 0.2% Yield	105-210	MPa (min)
Elongation (2" or 4D gl)	55-40	% (min)

PHYSICAL PROPERTIES (Room Temperature)

Specific Heat (0-100°C)	0.106	J.kg ⁻¹ .°K ⁻¹
Thermal Conductivity	38.8	W.m ⁻¹ .°K ⁻¹
Thermal Expansion		mm / m / °C
Modulus Elasticity		GPa
Electrical Resistivity	21.6	μohm / cm
Density	8.885	g / cm ³

CHEMICAL COMPOSITION (% by weight)

Element	Min	Max
Ni	99.0	-
Mn	-	0.35
Cu	-	0.25
Si	-	0.35
C	-	0.15
Fe	-	0.40
S	-	0.01

Disclaimer: The information contained within this data sheet is for guidance only and is not intended for warranty of individual application - express or implied.

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