



Nickel 200

UNS N02200

General Description

Commercially wrought Nickel 200 (UNS N02200) , a grade of pure nickel contains 99.2% nickel, has excellent mechanical properties, magnetic properties, high thermal, electrical conductivity and excellent resistance to many corrosive environment. Nickel 200 is useful in any environment below 600°F(315°C). It has highly resistance to neutral and alkaline salt solutions. Nickel 200 also has low corrosion rates in neutral and distilled water.

The applications of pure nickel includes food processing equipment, magnetostrictive devices and rechargeable batteries, computers, cellular Phone, power tools, camcorders and so on.

Chemical Composition

Alloy	Ni%	Mn%	Fe%	Si%	Cu%	C%	S%
Nickel 200	Min 99.2	Max 0.35	Max 0.4	Max 0.35	Max 0.25	Max 0.15	Max 0.01

Physical Properties

Density	8.89g/cm ³
Specific Heat	0.109 (456 J/kg.°C)
Electrical Resistivity	0.096×10 ⁻⁶ ohm.m
Melting Point	1435-1446°C
Thermal Conductivity	70.2 W/m-K
Mean Coeff Thermal Expansion	13.3×10 ⁻⁶ m/m.°C

Mechanical Properties

Mechanical Property	Nickel 200
Tensile Strength	462 Mpa
Yield Strength	148 Mpa
Elongation	0.47

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