



## Nickel 200 - UNS N02200

Henan Sheng He Pipe Industry Co., Ltd., have an experience spanning for over ten years, producing and supplying best-in-class products, minimize cost by getting manufacturing processes under one roof and delivering consignments on a daily basis only because of a diligent and dedicated team. We are manufacturers, suppliers and exporters of Nickel 200 material.

**Common Trade Names:** Nickel 200, Nickel 99.2

**Nickel 200 is 99.6% pure nickel alloy, one of the toughest metals. Nickel alloy 200 has unique characteristics, some of which include:**

- Excellent mechanical properties
- Low gas content
- Low vapor pressure
- Magnetic properties
- High thermal and electrical conductivity

### **What are the characteristics of Nickel 200?**

- Highly resistant to various reducing chemicals
- Excellent resistance to caustic alkalies
- High electrical conductivity
- Excellent corrosion resistance to distilled and natural waters
- Resistance to neutral and alkaline salt solutions
- Excellent resistance to dry fluorine
- Widely used to handle caustic soda
- Good thermal, electrical and magnetostrictive properties
- Offers some resistance to hydrochloric and sulfuric acids at modest temperatures and concentrations

These properties and its chemical composition make Nickel 200 fabricatable and highly resistant to corrosive environments. Nickel 200 is useful in any environment below 600o F. It is highly resistant to corrosion by neutral and alkaline salt solutions. Nickel alloy 200 also has low corrosion rates in neutral and distilled water. This nickel alloy can be hot formed to any shape and formed cold by all methods.



## Nickel 200 Available Formats

Henan Sheng He Pipe Industry offers Nickel alloy 200 in a variety of forms, including:

- Seamless & welded pipe
- Seamless & welded tube
- Bar
- Wire
- Sheet
- Plate
- forgings
- Pipe fittings
- Flanges
- Weld Rod

## Nickel 200 Applications

Nickel alloy 200 has many different industrial applications, some of which include:

- Electronic components
- Electrical components
- Wires for heating elements
- Battery connections/terminals
- Chemical processing
- Aerospace components
- Food processing
- Synthetic fiber processing

## ASTM Specifications

ASTM (American Society for Testing and Materials) for various products made out of Nickel 200 are as follow

Pipe Seamle ss	Pipe Welde d	Tube Seamle ss	Tube Welde d	Sheet/Pla te	Bar	Forgin g	Fittin g	Wir e
B161	B725	B163	B730	B162	B16 4	B564	B366	-



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### **Nickel 200 (UNS N02200) Chemical Composition, %**

Ni	Fe	Cu	C	Mn	S	Si
99.0 min	.40 max	.25 max	.15 max	.35 max	.01 max	.35 max

### **Mechanical Properties - Room Temperature properties of Various Products**

Product Form	Condition	Tensile (ksi)	.2% Yield (ksi)	Elongation (%)	Hardness (HRB)
Rod & Bar	Hot Finished	60-85	15-45	55-35	45-80
Rod & Bar	Cold Drawn/Annealed or Hot-Finished/Annealed	55-75	15-30	55-40	45-70
Plate	Hot-Rolled/Annealed	55-80	15-40	60-40	45-75
Sheet	Annealed	55-75	15-30	55-40	70 max
Tube & Pipe	Seamless Annealed	55-75	12-30	60-40	70 max