

Material Designation

2.4066 EN
N02200 UNS

Standards

DIN 17740
ASTM B 160

Chemical Composition

Alloying Content¹ [wt.-%]

Ni	C	Cu	Fe	Mg	Mn	S	Si	Ti	Co
≥ 99.2 ²	≤ 0.1	≤ 0.25	≤ 0.4	≤ 0.15	≤ 0.35	≤ 0.005	≤ 0.25	≤ 0.1	≤ 1.0

Properties

2.4066 (Nickel 200) is commercially pure wrought nickel with a face-centred cubic structure that remains austenitic from absolute zero up to the melting point, so no phase transformation occurs over the entire temperature range.

Nickel 200 is a ferromagnetic material with high electrical and thermal conductivity. The material offers excellent resistance to caustic alkalis, neutral and alkaline salt solutions, natural and distilled water, and reducing media. Resistance is limited in strongly oxidizing media such as nitric acid. Nickel 200 is readily weldable and easily cold formed; strength can be increased by cold working.

For continuous service above approx. 300 °C, the low-carbon grade 2.4068 (Nickel 201) is recommended to prevent embrittlement by intergranular carbon.

Nickel 200 has a density of 8.9 g/cm³.

Area of Application and Typical Applications Examples

Nickel 200 is used wherever high corrosion resistance or reliable electrical performance is required — mainly in the chemical and process industries, food and pharmaceutical production, electrical engineering and hydrogen technology. Typical examples include vessels, piping, heat exchangers and valves for caustic soda and caustic potash service, equipment for chlorine and halogen processing, electrical and electronic components such as lead wires, contacts and battery components, and electrodes for hydrogen production by water electrolysis.

Delivery Conditions

- ✖ Wire annealed, bright drawn or drawn (coils, barrels, on spools up to 3.0 mm possible)
- ✖ Straightened bars
- ✖ Alternative delivery conditions on request

Quality

- ISO 9001
- ISO 14001
- ISO 50001
- Approvals acc. to standards like ABS, BV, DNV ...
- Customer specific approval certificates

Innovation

- Fully automated phased-array-ultrasonic testing up to dia. 1000 mm
- CO₂-reduction by innovative heat treatment solutions

Flexibility

- Product range from fine wire to forging
- Directly from stock close at hand

Individuality

- Dimensions
- Tolerances
- Surface qualities
- Delivery conditions

Your personal contact:

BGH Edelstahlwerke GmbH

Am Stahlwerk 1
01705 Freital
+49 351 646-0
www.bgh.de



¹ In accordance with DIN 17740 and ASTM B 160.

² Including cobalt content, which is limited to max. 1.0 wt.-%