BH DÖVME METAL SANAYİ ve TİCARET LTD. ŞTİ.
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Grade	Code	UNS	Nickel Alloys
Nickel 200	Alloy 200 (2.4060)	N02200	

Nickel Alloy Properties

Nickel 200 / Alloy 200 is a commercially pure nickel grade with high purity, high ductility, easy formability and strong corrosion resistance, especially in caustic alkaline environments. Thanks to its high thermal and electrical conductivity, it is used not only in chemical processing but also in electrical-electronic and special equipment applications.

Chemical Analysis (Nickel 200 / Alloy 200)

Ni + Co %	Cu %	Fe %	Mn %	C %	Si %	S %
99.00 min.	0.25 max.	0.40 max.	0.35 max.	0.15 max.	0.35 max.	0.01 max.

Mechanical Properties (Annealed / Soft Annealed)

Product form	Rp0.2, MPa	Rm, MPa	Elongation, %	Hardness, HB	Density, g/cm³
Sheet	min. 100	min. 370	min. 40	90-125 HB*	8.89

**Hardness is an approximate HB conversion for information only; some sheet data sheets may specify hardness in HRB.*

Application Areas

Sector	Products
Chemical and caustic soda industry	Caustic soda tanks, evaporator components, process piping equipment
Food processing	Food contact surfaces, brine / salt-water equipment, process vessels working with organic acids
Synthetic fiber and soap production	Alkaline process tanks, reactor internals, handling and storage equipment
Electrical / electronics and electroplating	Electrode components, conductive connection elements, electroplating anode / cathode parts
Chlorine, fluorine and hydrochloric processes	Fluorine production tanks, dry chlorine / HCl gas equipment parts, controlled chlorination process equipment
Salt production and alkaline processes	Salt production equipment, alkaline transfer lines, process vessels
Marine / offshore and special process equipment	Corrosion-resistant connection parts, special pipe / tube components, auxiliary equipment in chemical contact
Aerospace and special industrial applications	Special connection parts, components requiring low gas pressure, parts requiring thermal / electrical conductivity

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Description

Nickel 200 / Alloy 200 is a commercially pure nickel grade that offers high ductility, good formability and stable corrosion resistance at low and moderate temperatures. It has good weldability and can be welded using conventional methods such as TIG, MIG and shielded metal arc welding; however, surface cleanliness before welding and the selection of a suitable nickel-based filler metal are important. Its machinability may be more challenging than stainless steels because its ductile structure can cause chip adhesion and work hardening during machining. Therefore, sharp tools, suitable cutting speeds and effective cooling are recommended. In terms of service temperature, **Nickel 200 / Alloy 200** is generally preferred up to approximately 315-316°C; for long-term service above this temperature, low-carbon Nickel 201 should be evaluated as a more suitable alternative.

Specification

Nickel 200, Alloy 200, UNS N02200, W.Nr. 2.4060 / 2.4066, Ni 99.2, Commercially Pure Nickel

Standards

Product form	ASTM / ASME	AMS
Rod & Bar	ASTM B160 / ASME SB160	—
Sheet / Strip	ASTM B162 / ASME SB162	AMS 5553*
Plate	ASTM B162 / ASME SB162	—

**AMS 5553 is commonly referenced for sheet/strip; because it is associated with low-carbon nickel, the UNS N02200 / UNS N02201 requirement should be verified at order stage.*

Alternative Grades

1. Nickel 201
2. Monel 400
3. Inconel 600

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