



Heat exchanger

Technical datasheet

Hastelloy C-2000

Major specifications

ASTM B575/B574/B622/B619 NACE MR0175 ISO 15156 UNS N06200

Available product forms

Commonly available bar sizes range from diameter $\Phi 3\text{mm} \sim \Phi 500\text{mm}$.
 Plate and sheet thicknesses typically range from 0.5mm ~ 50mm.
 Cold-rolled strips with a thickness of 0.2 mm to 2.5 mm; thinner specifications can also be produced upon request..
 Supply is limited and subject to minimum order quantities and longer lead times.
 Please visit <https://www.lorkalloy.com/> for current stock details.
 You can utilize our service center to have existing stock cut to your required dimensions.

Key features

Hastelloy C-2000 is a Ni-Cr-Mo-Cu corrosion-resistant alloy that exhibits excellent, broad-spectrum corrosion resistance in oxidizing and reducing acid environments, as well as in mixed-acid media. Its high chromium and molybdenum content, combined with the addition of copper, promotes the formation of a stable passive film, extends the passivation range in reducing environments, and provides resistance to pitting, crevice corrosion, and stress corrosion cracking. Compared to conventional alloys, C-2000 offers superior corrosion resistance across a wider range of conditions, making it particularly suitable for complex chemical processing applications.

Chemical properties

Composition - limits in %

Ni	Cr	Mo	Cu	Si	C
max.59.0	max.23.0	max.16.0	max.1.6	max.0.08	max.0.01

Physical and thermal properties(room temperature)

Density	8.50 g/cm ³
Melting temperature	1328-1358°C
Electrical Resistivity	1.28 $\mu\text{ohm.m}$
Thermal Conductivity	9.1 W/m.°C

Typical mechanical properties (room temperature)

Elongation	62%
Ultimate Tensile Strength	752 MPa
0.2% Offset Yield Strength	345 MPa

*This data comes from <https://www.lorkalloy.com/>

Data are typical values for reference only, not guaranteed minimums.

Actual performance depends on service conditions and should be verified by the user.