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ISO 9001 ISO 14001 ISO 45001

Chemical Industry and Wet-Process Phosphoric Acid Industry

Technical datasheet

Hastelloy G-30

Major specifications

ASTM B581/B582/B622/B619/B626 AWS A5.14/5.11 UNS N06030 W. Nr. 2.4603

Available product forms

Bars/Round Steel: Diameters ranging from Φ4mm to Φ800mm, lengths up to 6000mm,
Sheets/Plates: From 0.3mm thin sheets to 200mm medium-to-heavy plates. Widths up to 3500mm
Seamless Pipes: Outer diameters approx. Φ3mm – Φ600mm, wall thicknesses 0.5mm – 30mm.
Welded Pipes: Outer diameters approx. Φ6mm – 2800mm, wall thicknesses 0.3mm – 45mm, lengths up to 24000mm.
The current stock range can be found on https://www.lorkalloy.com/
Further dimensions available upon request.
Use our Service Centre to have the available sizes cut to your desired dimensions.

Key features

Hastelloy G-30 is a nickel-chromium-iron-molybdenum-copper alloy that exhibits excellent corrosion resistance to phosphoric acid and complex environments containing oxidizing acids. Its high chromium content provides outstanding resistance to pitting, crevice corrosion, and intergranular corrosion in the weld heat-affected zone, while the molybdenum and copper ensure superior performance in reducing acid environments and against chloride-induced stress corrosion cracking. With good thermal stability, excellent weldability, and strong resistance to sensitization and knife-line attack, it is suitable for use in the as-welded condition.

Chemical properties

Composition - limits in %

Ni	Cr	Fe	Mo	W	Cu
Balance	≈.30.0	≈.15.0	≈.5.5	≈.2.5	≈.2.0

Physical and thermal properties(room temperature)

Density	8.22 g/cm^3
Melting temperature	1350-1400°C
Electrical Resistivity	1.16 μohm.m
Thermal Conductivity	10 W/m.°C

Typical mechanical properties (room temperature-Bar)

Ultimate Tensile Strength	689 MPa
0.2% Yield Strength	317 MPa
Elongation	60

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