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ISO 9001 ISO 14001 ISO 45001



Titanium dioxide (chloride process) production line

Technical datasheet

Hastelloy C-4

Major specifications

ASTM B575/B574/B622/B619/B626 UNS N06455 W.Nr. 2.4610

Available product forms

Bar/Rod:Diameter: 3mm - 600mm, Length: Normally 6m, Or Produced As Required
Sheet/Plate:Thickness: 0.3 mm- 300 mm, Width: 1000 mm- 3000 mm; Length: As required
Tube/Pipe: Outside Diameter: 4.0 - 1219mm, Thickness: 0.5- 100 mm, Length: 24000 mm
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 C-4 is a nickel-chromium-molybdenum alloy characterized by exceptional thermal stability and resistance to sensitization, making it suitable for use in the as-welded condition. Its low carbon, silicon, and iron content inhibits the formation of grain-boundary precipitates in the weld heat-affected zone and prevents the precipitation of detrimental intermetallic phases. The alloy exhibits excellent resistance to stress corrosion cracking, pitting, and crevice corrosion across a wide range of aggressive corrosive environments. It is widely used in chemical reactors, heat exchangers, and flue-gas desulfurization (FGD) systems.

Chemical properties

Composition - limits in %

Ni	Cr	Mo	Fe	Co	Mn
Balance	max.18.0	max.17.0	max.3.0	max.2.0	max.1.0

Physical and thermal properties(Room Temperature)

Density	8.64 g/cm³
Melting temperature	≈ 1427°C
Electrical Resistivity	1.25 μohm.m
Thermal Conductivity	10.1 W/m.°C

Typical mechanical properties

Ultimate Tensile Strength	738 MPa
0.2% Yield Strength	492 MPa
Elongation	42 %

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

The data listed are typical values provided for reference only and do not constitute a guarantee.
Actual performance depends on operating conditions and should be verified by the user.