Stainless Steel 304 / 304L / 316 / 316L (Bar, Pipe, Sheet)

Designations: UNS S30400 / S30403 / S31600 / S31603 | 1.4301 / 1.4307 / 1.4401 / 1.4404

Applicable standards: ASTM A276, A312, A240

Product Description

Ochnology is a manufacturer and supplier of austenitic stainless steel 304, 304L, 316 and 316L in bright bar, round bar, seamless and welded pipe, sheet and plate, to ASTM A276, A312 and A240. Grade 304 has about 18–20% Cr and 8–10.5% Ni. Grade 316L has 16–18% Cr, 10–14% Ni and 2–3% Mo with carbon at 0.03% max, giving better chloride and pitting resistance and better weldability. Used for food processing, chemical, pharma, marine and architectural applications.

Chemical Composition (% by weight)

Element	304	304L	316	316L
Carbon (C)	≤ 0.08	≤ 0.030	≤ 0.08	≤ 0.030
Manganese (Mn)	≤ 2.00	≤ 2.00	≤ 2.00	≤ 2.00
Silicon (Si)	≤ 1.00	≤ 1.00	≤ 1.00	≤ 1.00
Phosphorus (P)	≤ 0.045	≤ 0.045	≤ 0.045	≤ 0.045
Sulphur (S)	≤ 0.030	≤ 0.030	≤ 0.030	≤ 0.030
Chromium (Cr)	18.0–20.0	18.0–20.0	16.0–18.0	16.0–18.0
Nickel (Ni)	8.0–10.5	8.0–12.0	10.0–14.0	10.0–14.0
Molybdenum (Mo)	—	—	2.0–3.0	2.0–3.0
Nitrogen (N)	≤ 0.10	≤ 0.10	≤ 0.10	≤ 0.10

Mechanical and Physical Properties

Property	304	304L	316	316L
Tensile strength, min (A276, annealed)	515 MPa	485 MPa	515 MPa	485 MPa
Yield strength (0.2%), min	205 MPa	170 MPa	205 MPa	170 MPa
Elongation, min	30 %	30 %	30 %	30 %

Supply Details

Item	Detail
Density	8.00 g/cm^3
Forms	Bright bar, round bar, seamless and welded pipe, sheet, plate
Delivery condition	Annealed; pickled or bright finish as per order
Certification	Mill test certificate (EN 10204 3.1) and third-party inspection available on request

Typical Applications

- Food and beverage processing
- Chemical and pharmaceutical plants
- Marine and coastal fittings
- Architectural and general fabrication

Ordering Information

To request a quotation, send the grade and standard, form, size or thickness, quantity, delivery condition, destination port and required certificates to info@ochnology.com or bd@ochnology.com. Typical values apply to the stated standards; actual values are certified on the mill test certificate for each lot.

Issue date: 31 October 2026