

1.4404

Austenitic stainless steel · Material no. 1.4404

1.4404 (AISI 316L) is a molybdenum-alloyed, low-carbon stainless steel with increased resistance to chlorides and aggressive media – standard in chemical and marine engineering.

1.4404
MATERIAL NO.

≥ 200–220 MPa
YIELD STRENGTH RP0.2

500–700 MPa
TENSILE STRENGTH RM

creep-resistant to
~550 °C · tough to
cryogenic
SERVICE TEMP.

Application

- Chemical and process plants
- Piping for chloride-bearing/aggressive media
- Food, pharma and marine engineering

Chemical composition (typical, wt.-%, per EN)

Element	Content (%)
C	≤ 0.030
Si	≤ 1.00
Mn	≤ 2.00
Cr	16.5–18.5
Ni	10.0–13.0
Mo	2.00–2.50
N	≤ 0.11

Mechanical properties (typical at RT, per EN)

Property	Value
Yield strength Rp0.2	≥ 200–220 MPa
Tensile strength Rm	500–700 MPa
Elongation A	≥ 40 %

Standards & supply

Topic	Detail
Standards	EN 10216-5, EN 10088
ASME/ASTM equivalent	~ AISI 316L
Short name / aka	X2CrNiMo17-12-2 · AISI 316L · V4A
Product forms	Pipes, flanges, fittings – seamless/welded, EN 10204 3.1/3.2 mill certificate

ROHRLINE · Gewerbering 19/1/6, 3484 Grafenwörth, Austria · +43 (0) 664 1203063 · office@rohrline.at · rohrline.at/en/werkstoff-1.4404.html

All data are typical values per the relevant EN standards for first orientation – without warranty. The applicable standard and the mill certificate of the delivery are decisive.