

1.4307

Austenitic stainless steel · Material no. 1.4307

1.4307 (304L) is the low-carbon version of 1.4301 – more weldable and more resistant to intergranular corrosion, without molybdenum.

1.4307 MATERIAL NO.	≥ 175–200 MPa YIELD STRENGTH RP0.2	470–670 MPa TENSILE STRENGTH RM	tough to cryogenic SERVICE TEMP.
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Application

- Welded piping and apparatus
- Food, beverage and water applications
- Vessel and plant engineering

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

Element	Content (%)
C	≤ 0.030
Si	≤ 1.00
Mn	≤ 2.00
Cr	17.5–19.5
Ni	8.0–10.5
N	≤ 0.11

Mechanical properties (typical at RT, per EN)

Property	Value
Yield strength Rp0.2	≥ 175–200 MPa
Tensile strength Rm	470–670 MPa
Elongation A	≥ 45 %

Standards & supply

Topic	Detail
Standards	EN 10216-5, EN 10088

Topic	Detail
ASME/ASTM equivalent	~ AISI 304L
Short name / aka	X2CrNi18-9 · AISI 304L
Product forms	Pipes, flanges, fittings – seamless/welded, EN 10204 3.1/3.2 mill certificate

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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.