

1.4539 (904L)

Super-austenitic stainless steel · Material no. 1.4539

1.4539 (904L) is a high-alloy, copper-bearing super-austenite with high resistance to sulphuric acid and aggressive media.

1.4539 MATERIAL NO.	≥ 220 MPa YIELD STRENGTH Rp0.2	520–720 MPa TENSILE STRENGTH Rm	highly corrosion-resistant SERVICE TEMP.
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Application

- Sulphuric-acid and pickling plants
- Chemical and process plants with aggressive media
- Flue-gas desulphurisation

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

Element	Content (%)
C	≤ 0.020
Cr	19.0–21.0
Ni	24.0–26.0
Mo	4.0–5.0
Cu	1.2–2.0
N	≤ 0.15

Mechanical properties (typical at RT, per EN)

Property	Value
Yield strength Rp0.2	≥ 220 MPa
Tensile strength Rm	520–720 MPa
Elongation A	≥ 35 %

Standards & supply

Topic	Detail
Standards	EN 10216-5, EN 10088

Topic	Detail
ASME/ASTM equivalent	~ UNS N08904
Short name / aka	X1NiCrMoCu25-20-5 · 904L
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-1.4539.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.