

Alloy 625

Nickel-base alloy · Material no. 2.4856

Alloy 625 is a high-temperature, extremely corrosion-resistant nickel-base alloy – for the most aggressive media, seawater and high temperatures.

2.4856

MATERIAL NO.

≥ 415 MPa

YIELD STRENGTH RP0.2

≥ 830 MPa

TENSILE STRENGTH RM

high-temperature
& highly
corrosion-
resistant

SERVICE TEMP.

Application

- Chemical and offshore plants with the most aggressive media
- Flue-gas cleaning and seawater technology
- High-temperature components

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

Element	Content (%)
Ni	≥ 58
Cr	20.0–23.0
Mo	8.0–10.0
Nb+Ta	3.15–4.15
Fe	≤ 5.0

Mechanical properties (typical at RT, per EN)

Property	Value
Yield strength Rp0.2	≥ 415 MPa
Tensile strength Rm	≥ 830 MPa
Elongation A	≥ 30 %

Standards & supply

Topic	Detail
Standards	ASTM B444 / B446, VdTÜV
ASME/ASTM equivalent	~ UNS N06625
Short name / aka	NiCr22Mo9Nb · Inconel 625 · UNS N06625
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.