

1.4571

Austenitic stainless steel · Material no. 1.4571

1.4571 (316Ti) is a titanium-stabilised, molybdenum-alloyed stainless steel – intergranular-resistant even at higher temperatures and after welding.

1.4571
MATERIAL NO.

≥ 220 MPa
YIELD STRENGTH RP0.2

500–730 MPa
TENSILE STRENGTH RM

intergranular-resistant to ~400 °C
SERVICE TEMP.

Application

- Chemical and process plants at higher temperatures
- Welded apparatus and piping
- Exhaust and heat-exchanger construction

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

Element	Content (%)
C	≤ 0.08
Si	≤ 1.00
Mn	≤ 2.00
Cr	16.5–18.5
Ni	10.5–13.5
Mo	2.00–2.50
Ti	5×C–0.70

Mechanical properties (typical at RT, per EN)

Property	Value
Yield strength Rp0.2	≥ 220 MPa
Tensile strength Rm	500–730 MPa
Elongation A	≥ 40 %

Standards & supply

Topic	Detail
Standards	EN 10216-5, EN 10088
ASME/ASTM equivalent	~ AISI 316Ti
Short name / aka	X6CrNiMoTi17-12-2 · AISI 316Ti
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.