



1.4571

Description - 1.4571 / AISI 316 Ti is an austenitic chromium-nickel-stainless steel, stabilized with titanium.

Special properties - Good corrosion resistance to low content of hydrochloric and organic acids.

Suitable welding filler materials - 1.4430, 1.4576.

Application - Chemical industry, textile industry, cellulose industry.

Chemical Composition in %

C	Si	Mn	Cr	Ni	Mo	Fe	Ti
≤0.08	≤1.00	≤2.00	16.5-18.5	10.5-13.5	2.0-2.5	Rest	≤5 x C

Standards

Material No.	1.4571
EN Designation	X6CrNiMoTi17-12-2
AISI/SAE	316 Ti
UNS	S31635

Mechanical Properties 20 °C

Hardness HB 30	≤215
0,2% Yield strength Rp, N/mm ²	≥200
Tensile strength Rm, N/mm ²	500-700
Elongation A5, %	≥40/30
Modulus of elasticity, kN/mm ²	200

Physical Properties 20 °C

Density, g/cm ³	8
Specific heat capacity, J/kg K	500
Thermal conductivity, W/m K	15
Electrical resistivity, Ω mm ² /m	0.75