

Chemical Composition

C ≤%	Si ≤%	Mn ≤%	P ≤%	S ≤%
0.08	1.00	2.00	0.045	0.015
Cr %	Mo %	Ni %	Ti ≤%	
16.5-18.5	2.00-2.50	10.5-13.5	5xC	

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.

Steel Grade

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

Mechanical Properties 20 C

Hardness HB 30 ≤ HB	0.2% Yield strength R _p ≥ N/mm ²	Tensile strength R _m N/mm ²	Elongation A ₅ ≥ %	Modulus of elasticity kN/mm ²
215	200	500-700	40/30	200

Physical Properties 20°C

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

Suitable Welding Filler Materials

1.4430 / 1.4576

Application

Chemical industry, textile industry, cellulose industry

Available Forms for AISI316Ti

Sheets/Coils	Bars	Tubes / Pipes	Wires	Fittings	Forged / cast parts	Finished part (drawing)
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