

### Standards

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

### 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.

### 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	5 x C	

### Mechanical Properties 20°C

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

### Physical Properties 20°C

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

### Suitable welding filler materials

1.4430; 1.4576

### Application

Chemical industry, textile industry, cellulose industry

### Available forms for 1.4571 / AISI 316 Ti

Sheets/Plates	Bars	Wire	Tubes/Pipes	Fittings	Forged / cast parts	Finished part (drawing)
						