

## Stainless Steel

## 1.4571 (316Ti)

Datasheet Updated  
05 August 2021

### SPECIFICATIONS

Commercial	316Ti
EN	1.4571

A chromium-nickel-molybdenum-titanium austenitic stainless steel.

### CHEMICAL COMPOSITION

EN10088-3  
1.4571 Steel

Element	% Present
Carbon (C)	0.00 - 0.08
Chromium (Cr)	16.50 - 18.50
Molybdenum (Mo)	2.00 - 2.50
Silicon (Si)	0.00 - 1.00
Phosphorous (P)	0.00 - 0.05
Sulphur (S)	0.00 - 0.03
Nickel (Ni)	10.50 - 13.50
Titanium (Ti)	0.40 - 0.70
Manganese (Mn)	0.00 - 2.00
Iron (Fe)	Balance

### ALLOY DESIGNATIONS

Stainless steel grade 1.4571/316Ti also corresponds to the following designations **but may not be a direct equivalent**:

- UNS S31625
- 320S31

### SUPPLIED FORMS

- Bar
- Fittings & Flanges
- Strip
- Pipe
- Tube
- Sheet
- Plate

### APPLICATIONS

- Food processing equipment
- Brewery equipment
- Chemical and petrochemical equipment
- Laboratory benches & equipment
- Coastal architectural panelling
- Coastal balustrading
- Boat fittings
- Chemical transportation containers
- Heat exchangers
- Mining screens
- Nuts and bolts
- Springs
- Medical implants

### CHARACTERISTICS

- Held at higher temperatures for a longer period without precipitation occurring
- Excellent corrosion resistance when exposed to a range of corrosive environments and media
- Good machinability
- Excellent weldability

## MECHANICAL PROPERTIES

EN10088-3

Bar Up to 160mm Diameter

Property	Value
Proof Stress	200 Min MPa
Tensile Strength	500 to 700 MPa
Elongation A50 mm	40 Min %
Hardness Brinell	215 Max HB

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