

1.4571 316Ti

X6CrNiMoTi17-12-2	%C	%Si	%Mn	%P	%S	%Cr	%Cu	%Mo	%Ni	%Ti
	-	-	-	-	-	16.5	-	2.00	10.5	5*C
	0.08	1.00	2.00	0.045	0.030	18.5	-	2.50	13.5	0.70

STEEL PROPERTIES

The steel properties of 1.4571 316Ti, Good weldability. Post-weld annealing may be required to restore corrosion resistance in certain cases.

EQUIVALENT GRADES

EN 10088-3	1.4571	X6CrNiMoTi17-12-2
AFNOR	Z6CNDT17.12	
JIS	SUS316Ti	
AISI	316Ti	
BS	320S31	

APPLICATIONS

1.4571 316Ti Used in chemical, pharmaceutical, and petrochemical industries. Commonly used in equipment such as heat exchangers and pressure vessels. Surgical instruments and medical implants. Architectural and marine applications.

HEAT TREATMENT

1.4571 316Ti is supplied in annealed +AT conditions.

Mechanical Values for 1.4571 316Ti at room temperature in EN 10088-3: 2014 in conditions 1C, 1E, 1D, 1X, 1G, 2D

Diameter (mm)	Heat Treatment Condition	Hardness HB max.	0.2% Proof strength min.	Tensile Strength R _m Mpa	Elongation after fracture A % Min.		Impact Energy (ISO-V) KV J Min.	
					(long)	(tr.)	(long)	(tr.)
-	+AT	-	-	Max 800	-	-	-	-
<= 160	-	215	200	500 to 700	40	-	100	-

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Mechanical Values for 1.4571 316Ti Bright Bars at room temperature in EN 10088-3: 2014 in conditions 2H, 2B, 2G, 2P

Diameter (mm)	Annealed		Heat Treatment Condition	0.2% Proof strength min.	Tensile Strength R _m Mpa	A5 % Min Elongation		Impact Energy (ISO-V) KV J Min.	
	R _m Mpa Max	HB Max				(long)	(tr.)	(long)	(tr.)
=<10	400	305	+AT	220	600 to 950	25	-	-	-
10<t<=16	380	305	+AT	220	580 to 950	25	-	-	-
16<t<=40	200	280	+AT	250	500 to 850	30	-	100	-
40<t<=63	200	260	+AT	250	500 to 700	30	-	100	-
63<t<=160	200	245	+AT	250	500 to 700	40	-	100	-

PRODUCTS OFFERED

- PEELED BARS
- BRIGHT BARS
- HEXAGONS
- SQUARES
- FLAT BARS
- WIRES