

1.4436 316

X3CrNiMo17-13-3	%C	%Si	%Mn	%P	%S	%N	%Cr	%Mo	%Nb	%Ni
	-	-	-	-	-	-	16.5	2.50	-	10.5
	0.05	1.00	2.00	0.045	0.030	0.11	18.5	3.00	-	13.0

STEEL PROPERTIES

1.4436 316, is an austenitic stainless steel known for its excellent corrosion resistance and versatility. It is widely used in various industries for a range of applications. It has good machinability, making it suitable for various fabrication processes, including machining, welding, and forming.

EQUIVALENT GRADES

EN 10088-3	1.4436	X3CrNiMo17-13-3
AFNOR	Z6CND17.12	
JIS	SUS316	
AISI	316	
BS	316S16	

APPLICATIONS

1.4436 316 is widely used in a variety of applications, including chemical and pharmaceutical equipment, food processing equipment, marine and offshore components, medical devices, and various industrial equipment where corrosion resistance and formability are crucial.

HEAT TREATMENT

1.4436 316 is supplied in annealed +AT conditions.

Mechanical Values for 1.4436 316 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 Rm 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 1.4436 316 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 Rm Mpa	A5 % Min Elongation		Impact Energy (ISO- V) KV J Min.	
	Rm Mpa Max	HB Max				(long)	(tr.)	(long)	(tr.)
=<10	400	305	+AT	700	600 to 950	25	-	-	-
10<t<=16	400	305	+AT	700	600 to 950	25	-	-	-
16<t<=40	200	280	+AT	650	500 to 850	30	-	100	-
40<t<=63	190	260	+AT	650	500 to 850	30	-	100	-
63<t<=160	200	245	+AT	650	500 to 700	40	-	100	-

PRODUCTS OFFERED

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