

1.4401 316

X5CrNiMo17-12-2	%C	%Si	%Mn	%P	%S	%N	%Cr	%Mo	%Nb	%Ni
	-	-	-	-	-	-	16.5	2.00	-	10.0
	0.07	1.00	≤2.00	0.045	≤0.030	≤0.11	18.5	2.50	-	13.0

STEEL PROPERTIES

1.4401 316 is an austenitic stainless steel known for its excellent corrosion resistance and versatility. It's one of the most widely used stainless steel grades.

EQUIVALENT GRADES

EN 10088-3	1.4401	X5CrNiMo17-12-2
AFNOR	Z6CND17.11	
JIS	SUS316	
AISI	316	
BS	-	

APPLICATIONS

1.4401 316 is used in a wide variety of applications, including chemical and pharmaceutical equipment, food processing equipment, marine and offshore applications, medical devices, and various industrial equipment where corrosion resistance and formability are important.

HEAT TREATMENT

1.4401 316 is supplied in annealed +AT.

Mechanical Values for 1.4401 316 at room temperature in EN 10088-3: 2014 inconditions 1C, 1E, 1D, 1X, 1G, 2D

Diameter (mm)	Heat Treatment Condition	Hardness HB max.	0.2% Proof strength min.	1% Proof strength min.	Tensile Strength Rm Mpa	Elongation after fracture A % Min.		Impact Energy (ISO-V) KV J Min.	
						(long)	(tr.)	(long)	(tr.)
160	+AT	215	200	235	-	40	-	100	-
160<250	-	-	-		500 to 700	-	30	-	60

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Mechanical Values for 1.4401 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 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	340	+AT	175	600 to 950	25	-	-	-
10 <t ≤ 16	380	340	+AT	158	580 to 950	25	-	-	-
16 <t ≤ 40	200	310	+AT	145	500 to 850	30	-	100	-
40 <t ≤ 63	200	290	+AT	135	500 to 850	30	-	100	-
63 <t ≤ 160	200	280	+AT	127	500 to 700	40	-	100	-
160 <t ≤ 250	200	280	+AT	120	500 to 700	-	30	-	60

PRODUCTS OFFERED

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