

1.4406 316LN

X2CrNiMoN17-11-2	%C	%Si	%Mn	%P	%S	%Cr	%N	%Mo	%Nb	%Ni
	-	-	-	-	-	16.5	0.12	2.00	-	10.0
	0.030	1.00	2.00	0.045	0.030	18.5	0.22	2.50	-	12.5

STEEL PROPERTIES

1.4406 316LN is a martensitic stainless steel known for its balance of corrosion resistance and mechanical properties. Especially in non-severe environments. It can resist corrosion from moisture, some chemicals, and mild atmospheric conditions. However, it may not be as resistant to aggressive chemicals or high-chloride environments as austenitic stainless steels.

EQUIVALENT GRADES

EN 10088-3	1.4406	X2CrNiMoN17-11-2
AFNOR	Z2CND17.12Az	
JIS	SUS316LN	
AISI	316LN	
BS	316S61	

APPLICATIONS

1.4406 316LN is used in various applications where a balance between corrosion resistance and mechanical strength are required. Common applications include components in the automotive industry, construction equipment, industrial machinery, and manufacturing tools.

HEAT TREATMENT

1.4406 316LN is supplied in annealed +AT.

Mechanical Values for 1.4406 316LN 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.)
<= 160	+AT	250	280	580 to 800	40	-	100	-
160<t<250	-	-	-	-	-	30	-	60

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Mechanical Values for 1.4406 316LN 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	215	600 to 930	25	-	-	-
10<t<=16	380	305	+AT	195	580 to 930	25	-	-	-
16<t<=40	200	280	+AT	175	500 to 830	30	-	100	-
40<t<=63	200	260	+AT	165	500 to 830	30	-	100	-
63<t<=160	200	245	+AT	155	500 to 700	40	-	100	-

PRODUCTS OFFERED

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