

1.4435 316L

X2CrNiMo18-14-3	%C	%Si	%Mn	%P	%S	%N	%Cr	%Mo	%Nb	%Ni
	-	-	-	-	-	-	17.0	2.50	-	12.5
	0.030	1.00	2.00	0.045	0.030	0.11	19.0	3.00	-	15.0

STEEL PROPERTIES

1.4435 316L, is an austenitic stainless steel with excellent corrosion resistance and a wide range of applications. offers excellent corrosion resistance and is highly resistant to various corrosive environments, including those with chloride ions. It is suitable for a wide range of applications where corrosion resistance is essential.

EQUIVALENT GRADES

EN 10088-3	1.4435	X2CrNiMo18-14-3
AFNOR	Z2CND17.13	
JIS	SCS16	
AISI	316L	
BS	316S11	

APPLICATIONS

1.4435 316L 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

1.4435 316L is supplied in annealed +AT conditions.

Mechanical Values for 1.4435 316L 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	215	200	500 to 700	40	-	100	-

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Mechanical Values for 1.4435 316L 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	200	600 to 950	25	-	-	-
10<t<=16	400	305	+AT	194	600 to 950	25	-	-	-
16<t<=40	235	280	+AT	186	500 to 850	30	-	100	-
40<t<=63	235	260	+AT	179	500 to 850	30	-	100	-
63<t<=160	235	245	+AT	172	500 to 750	40	-	100	-

PRODUCTS OFFERED

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