

## 1.4511 430NB

X3CrNb17	%C	%Si	%Mn	%P	%S	%Cr	%Cu	%Mo	%Nb	%Ni
	-	-	-	-	-	16.0	-	-	12*C	-
	0.05	1.00	1.00	0.040	0.030	18.0	-	-	1.00	-

### STEEL PROPERTIES

1.4511 430Nb is a ferritic stainless steel with good corrosion resistance and high-temperature strength. It has good machinability, making it suitable for various fabrication processes, including machining and welding.

### EQUIVALENT GRADES

EN 10088-3	1.4511	X3CrNb17
AFNOR	Z3CT12	
GOST	-	
AISI	430Nb	
BS	-	

### APPLICATIONS

1.4511 430Nb is used in a range of applications, including automotive components, exhaust systems, architectural cladding, and appliances. It is chosen in situations where moderate corrosion resistance, high-temperature strength, and formability are required.

### HEAT TREATMENT

1.4511 430Nb is supplied in annealed +A.

### Mechanical Values for 1.4511 430Nb 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 <sub>m</sub> Mpa	Elongation after fracture A % Min.		Impact Energy (ISO-V) KV J Min.	
					(long)	(tr.)	(long)	(tr.)
-	+A	-	-	Max 800	-	-	-	-
<= 50	-	200	200	420 to 620	20	-	-	-

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**Mechanical Values for 1.4511 430Nb 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 <sub>m</sub> Mpa	A5 % Min Elongation		Impact Energy (ISO-V) KV J Min.	
	R <sub>m</sub> Mpa Max	HB Max				(long)	(tr.)	(long)	(tr.)
=<10	320	305	+A	320	500 to 750	8	-	-	-
10<t<=16	300	305	+A	300	480 to 750	10	-	-	-
16<t<=40	240	280	+A	240	400 to 700	15	-	-	-
40<t<=50	240	260	+A	240	400 to 700	15	-	-	-

### PRODUCTS OFFERED

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