

## 1.4313 415

X3CrNiMo13-4	%C	%Si	%Mn	%P	%S	%Cr	%Cu	%Mo	%N	%Ni
	-	-	-	-	-	12.0	-	0.30	0.020	3.5
	≤0.05	0.70	≤1.50	0.040	≤0.015	14.0	-	0.70	-	4.5

### STEEL PROPERTIES

1.4313 415 is a martensitic stainless steel known for its combination of corrosion resistance and mechanical properties.

### EQUIVALENT GRADES

EN 10088-3	1.4313	X3CrNiMo13-4
AFNOR	Z4CDN13.4	
JIS	SCS5	
AISI	415	
BS	425C11	

### APPLICATIONS

1.4313 415 is used in various applications, including components for the automotive industry, construction equipment, industrial machinery, and manufacturing tools.

### HEAT TREATMENT

1.4313 415 is supplied in annealed +A and QT conditions.

### Mechanical Values for 1.4313 415 at room temperature in EN 10088-3: 2014 in conditions 1C, 1E, 1D, 1X, 1G, 2DP

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.)
-	+A	320	-	Max 1100	-	-	-	-
160	+QT700	-	520	700 to 800	15	-	70	-

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**Mechanical Values for 1.4313 415 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	400	340	+QT780	590	600-950	15	-	-	-
10 <t ≤ 16	400	340	+QT780	575	600-950	15	-	-	-
16 <t ≤ 40	190	310	+QT780	560	500-850	20	-	100	-
40 <t ≤ 63	190	290	+QT780	545	500-850	20	-	100	-
63 <t ≤ 160	190	280	+QT780	530	500-750	35	-	100	-

## PRODUCTS OFFERED

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