

## 1.4301 304

X5CrNi18-10	%C	%Si	%Mn	%P	%S	%Cr	%N	%Mo	%Nb	%Ni
	-	-	-	-	-	17.5	-	-	-	8.0
	0.07	1.00	2.00	0.045	0.030	19.5	0.11	-	-	10.5

### STEEL PROPERTIES

1.4301 304 is an austenitic stainless steel, often referred to as AISI 304 or X5CrNi18-10. It is one of the most widely used stainless steel grades with a wide range of applications.

### EQUIVALENT GRADES

EN 10088-3	1.4301	X5CrNi18-10
AFNOR	Z6CN18.09	
JIS	SUS304	
AISI	304	
BS	304S15	

### APPLICATIONS

1.4301 304 is used in various applications, including Food Processing Equipment, Architectural Elements, Pharmaceutical Equipment, Chemical Industry, Medical Equipment, Industrial Applications, Structural Component's, & Many More.

### HEAT TREATMENT

1.4301 304 is supplied in annealed +AT conditions.

### Mechanical Values for 1.4301 304 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.	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	190	225	-	45	-	100	-
160 < t 250	-	-	-	-	500 to 700	-	35	-	60

## 1.4301 304

**Mechanical Values for 1.4301 304 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	215	+AT	155	600 to 950	25	-	-	-
10 <t ≤ 16	400	215	+AT	155	600 to 950	25	-	-	-
16 <t ≤ 40	190	215	+AT	140	600 to 850	30	-	100	-
40 <t ≤ 63	190	215	+AT	140	580 to 850	30	-	100	-
63 <t ≤ 160	190	215	+AT	140	500 to 700	45	-	100	-

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### PRODUCTS OFFERED

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