SUSTAINABLE
STAINLESS
STEEL

ALOK STEELS
steel re engineered

1.4307 304L

X2CrNi18-9	%C	%Si	%Mn	%P	%N	%S	%Cr	%Ni
	-	-	-	-		-	17.5	8.0
	0.030	1.00	2.00	0.045	0.11	0.030	19.5	10.5

STEEL PROPERTIES

1.4307 304L is an austenitic stainless steel, often referred to as AISI 304L or X2CrNi18-9. It is a low-carbon version of AISI 304L and is known for its excellent corrosion resistance and weldability.

EQUIVALENT GRADES

EN 10088-3	1.4307	X2CrNi18-9
AFNOR	CLC18.9L	
JIS	SUS304L	
AISI	304L	
BS	304S11	

APPLICATIONS

1.4307 304L is used in a wide variety of applications, including chemical and pharmaceutical equipment, food processing equipment, dairy equipment, architectural elements, and weldability is important.

HEAT TREATMENT

1.4307 304L is supplied in annealed +AT conditions.

Mechanical Values for 1.4307 304L at room temperature in EN 10088-3: 2014 inconditions 1C, 1E, 1D, 1X, 1G, 2D

Diameter (mm)	Heat Treatment Condition	Hardness HB max.	0.2% Proof strength min.	1% Proof strengthmin	Tensile StrengthRm Mpa	Elongation after fracture A % Min.		Impact Energy (ISO-V) KV J Min.	
						(long)	(tr.)	(long)	(tr.)
160	+AT	215	175	210	500 to 700	45	-	100	-
160< t 250	-	-	-	-	-	-	35	-	60

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Mechanical Values for 1.4307 304L 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 strengt hmin.	Tensile Strength Rm Mpa	A5 % Min Elongation		Impact Energy (ISO-V) KV J Min.	
	R_m Mpa Max	HB Max				(long)	(tr.)	(long)	(tr.)
≤10	400	215	+AT	145	600 to 930	25	-	-	-
10 <t ≤ 16	380	215	+AT	145	600 to 930	25	-	-	-
16 <t ≤ 40	175	215	+AT	140	500 to 830	30	-	100	-
40 <t ≤ 63	175	215	+AT	140	500 to 830	30	-	100	-
63<t ≤ 160	175	215	+AT	140	500 to 700	45	-	100	-

PRODUCTS OFFERED

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