



### United Industries Standard Tubing Sizes

These are our best-selling tubing sizes that we run regularly or may have in stock and ready for shipment. To place your order today, call 608-365-8891 or go to [www.unitedindustries.com](http://www.unitedindustries.com).

#### OD Sizes

INCHES	MILLIMETERS	INCHES	MILLIMETERS
.375	9.525	2.312	58.725
.500	12.700	2.362	60.000
.625	15.875	2.375	60.325
.675	17.145	2.382	60.503
.750	19.050	2.500	63.500
.840	21.336	2.625	66.675
.875	22.225	2.750	69.850
1.000	25.400	2.875	73.025
1.062	26.975	3.000	76.200
1.125	28.575	3.250	82.550
1.250	31.750	3.500	88.900
1.315	33.401	3.613	91.770
1.375	34.925	3.750	95.250
1.500	38.100	4.000	101.600
1.625	41.275	4.138	105.105
1.681	42.698	4.378	111.201
1.750	44.450	4.500	114.300
1.770	44.958	4.760	120.900
1.875	47.625	4.934	125.324
1.900	48.260	5.000	127.000
1.913	48.590	5.370	136.400
1.969	50.001	5.500	139.700
2.000	50.800	6.000	152.400
2.125	53.975	8.000	203.200
2.250	57.150		

Tubing is Laser welded, annealed or unannealed, polished or as welded. Wall thickness can range from .020 - .145; other sizes are available on demand. Types include 304, 304L, 316, 316L, 321, 409, 439, 18CB, 12SR, 29-4C, 441, 444, and others. We maintain an extensive inventory of 3A-authorized sanitary tubing consisting of 1/2", 3/4", 1", 1-1/2", 2", 2-1/2", 3", 4", 6", and 8" OD sizes with mechanical or electro-polish finish.

The Standard of Excellence

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## United Industries Stainless Steel Chemical Composition

### AUSTENITIC GRADES (ASTM A240 Requirements)

ELEMENTS	T304	T304L	T316	T316L	T321
(C) Carbon, max.	0.080%	0.030%	0.080%	0.030%	0.080%
(Mn) Manganese, max.	2.000	2.000	2.000	2.000	2.000
(P) Phosphorus, max.	0.045	0.045	0.045	0.045	0.045
(S) Sulphur, max.	0.030	0.030	0.030	0.030	0.030
(Si) Silicon, max.	0.750	0.750	0.750	0.750	0.750
(Cr) Chromium	18.00-20.00	18.00-20.00	16.00-18.00	16.00-18.00	17.00-19.00
(Ni) Nickel	8.00-10.50	8.00-12.00	10.00-14.00	10.00-14.00	9.00-12.00
Other Elements	(N) 0.10 max.	(N) 0.10 max.	(Mo) 2.00-3.00 (N) 0.10 max.	(Mo) 2.00-3.00 (N) 0.10 max.	(Ti) 5 x (C+N) min; 0.070 max. (N) 0.10 max.

### FERRITIC GRADES

ELEMENTS	T409	T439	T441HP (Typical %)	AK Steel 18CRCB	AK Steel 18SR	Allegheny Ludlum AL29-4C
(C) Carbon, max.	0.030	0.030	0.009	0.030	0.100	0.020
(Mn) Manganese, max.	1.00	1.00	0.35	1.00	1.00	0.50
(P) Phosphorus, max.	0.040	0.040	0.023	0.040	0.045	0.030
(S) Sulphur, max.	0.020	0.030	0.002	0.030	0.045	0.010
(Si) Silicon, max.	1.00	1.00	0.34	1.00	0.50-1.40	0.35
(Cr) Chromium	10.50-11.70	17.00-19.00	18.00	17.50-19.50	18.00-19.00	29.00
(Ni) Nickel	0.50 max.	.050 max.	0.30	1.00 max.	1.00 max.	0.30
Other Elements	(Ti) 6x C+N (min.) .050 max; Cb 0.17 (N) 0.030	(Ti) 0.20 + 4 (C +N) min. 1.10 max. (Al) 0.15 (N) 0.030	(Ti) 0.29 (Cb) 0.71 (N) 0.030 (Al) 0.05	(Ti) 0.10-0.50 (Nb) 0.30-0.90	(Al) 1.60-2.70 (Ti) .15-.80	(Mo) 4.00 (N) 0.02 (Nb) 0.20 (Co) 0.030 Iron Balance

Values shown are typical; contact United Industries for special compositions or specific details. Chemical composition percentages on other types available on request. The above information was correct at the time of publication and is subject to change without notice.

### ISO/TS16949:2009 Registered Quality Management System



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