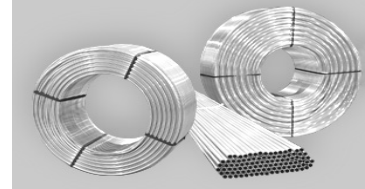
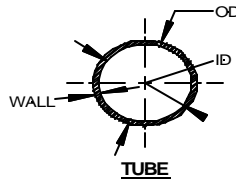




## Drawn Seamless Tubes, Aluminum & Aluminum-Alloy ( ASTM B 210 )<sup>1</sup>

DAYCO offers Drawn Seamless tubular products in straight lengths and coils for general purpose and pressure applications which meet ASTM B 210 requirements in alloys, tempers and thicknesses that follow below.  
( Coiled tubes are generally available only as round tubes with wall thickness not exceeding .083 inches and only in non-heat-treatable alloys)



### Ordering Information

- Notation of Specification ASTM B 210 and application use.
- Quantity in pieces, pounds or feet.
- Alloy

<b>UNS No.</b>	A91060	A91100	A92011	A92014	A92024	A93003	A93102	A93303
A95005	A95050	A95052	A95083	A95086	A95456	A96061	A96063	A96262
Alclad 3003	Alclad 3102	Alclad 3303	A97072 cladding	A97075				

*Alloy designations are in accordance with ANSI H35.1*

- Temper are dependant on alloy chosen and mechanical properties desired. Please review ASTM B 210 tables 2. *Temper designations are in accordance with ANSI H35.1*
- Whether heat treatment in accordance with ASTM B 587 is required.
- Whether flattening tests are required.
- Whether flare testing is required.
- Whether 7075-O material is required to develop requirements for t73 temper.
- Whether testing for leaks is required and, when leaks are allowed, the number of leaks allowed and the manner of marking leaks.
- Whether inside cleanness test is required on coiled tubes and frequency of testing required.
- Whether cladding requirement is inside or outside for alloy Alclad 3003, Alclad 3102 and Alclad 3303.
- Size: Cross-sectional dimensions (outside and wall thickness, or inside diameter and wall thickness for round tube; for tube other than round, square, rectangular, hexagonal, or octagonal with sharp corners, a drawing is required).
- Length (straight or coiled).
- Nominal inside diameter if coils and weight or maximum outside diameter, if applicable.
- Inspection or witness of inspection and tests by purchaser's representative, if required.
- Special marking for identification, if required.
- Certification of material, if required.
- Practices noted by ASTM B 660 for packing, if required.

Dimensional Tolerances for drawn seamless tube will be in accordance with ANSI H35.2 (H35.2M) section 12. For tempers and sizes not included ASTM B 210 and or within ANSI H35.2 (H35.2M) shall be agreed upon between DAYCO and purchaser.

### Other Standards

For general purpose applications using aluminum -alloy drawn tubes see ASTM B 483. For condensers and heat exchangers applications see ASTM B 234. For aluminum -alloy seamless pipe and seamless extruded tube see ASTM B241.

<sup>1</sup> For ASME Boiler and Pressure Vessel Code applications see related Specification SB-210 in Section II of that Code.

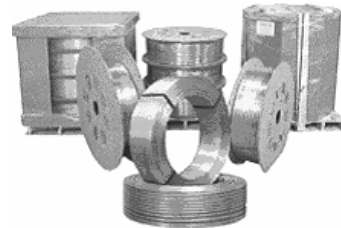
**Table I "Straight Lengths"** ( Typical lengths are 12', Others available, Custom Cut-To-Length options are available )

OD (in.)	WALL (in.)	ID (in.)	WT/FT (lbs.)	OD (in.)	WALL (in.)	ID (in.)	WT/FT (lbs.)	OD (in.)	WALL (in.)	ID (in.)	WT/FT (lbs.)
0.1875	0.028	0.1315	0.0165	0.7500	0.065	0.6200	0.1645	1.6250	0.058	1.5090	0.3358
0.1875	0.035	0.1175	0.0197	0.7500	0.083	0.5840	0.2045	1.6250	0.125	1.3750	0.6927
0.1875	0.049	0.0895	0.0251	0.7500	0.095	0.5600	0.2299	1.6250	0.250	1.1250	1.2700
0.2500	0.035	0.1800	0.0278	0.7500	0.125	0.5000	0.2886	1.7500	0.120	1.5100	0.7226
0.2500	0.028	0.1940	0.0230	0.8750	0.035	0.8050	0.1086	1.7500	0.049	1.6520	0.3079
0.2500	0.049	0.1520	0.0364	0.8750	0.049	0.7770	0.1495	1.7500	0.058	1.6340	0.3626
0.2500	0.058	0.1340	0.0411	0.8750	0.058	0.7590	0.1751	1.7500	0.065	1.6200	0.4046
0.2500	0.065	0.1200	0.0444	0.8750	0.065	0.7450	0.1945	1.7500	0.083	1.5840	0.5112
0.3125	0.028	0.2565	0.0294	0.8750	0.095	0.6850	0.2738	1.8750	0.049	1.7770	0.3306
0.3125	0.035	0.2425	0.0359	0.8750	0.120	0.6350	0.3347	1.8750	0.058	1.7590	0.3893
0.3125	0.049	0.2145	0.0477	1.0000	0.028	0.9440	0.1005	1.8750	0.083	1.7090	0.5495
0.3125	0.058	0.1965	0.0545	1.0000	0.035	0.9300	0.1248	2.0000	0.049	1.9020	0.3532
0.3125	0.065	0.1825	0.0594	1.0000	0.049	0.9020	0.1722	2.0000	0.095	1.8100	0.6686
0.3750	0.028	0.3190	0.0359	1.0000	0.058	0.8840	0.2019	2.0000	0.120	1.7600	0.8335
0.3750	0.035	0.3050	0.0440	1.0000	0.065	0.8700	0.2245	2.0000	0.035	1.9300	0.2541
0.3750	0.049	0.2770	0.0590	1.0000	0.083	0.8340	0.2812	2.0000	0.049	1.9020	0.3532
0.3750	0.058	0.2590	0.0679	1.0000	0.095	0.8100	0.3176	2.0000	0.058	1.8840	0.4161
0.3750	0.065	0.2450	0.0744	1.0000	0.125	0.7500	0.4041	2.0000	0.065	1.8700	0.4647
0.3750	0.083	0.2090	0.0895	1.1250	0.035	1.0550	0.1409	2.0000	0.083	1.8340	0.5878
0.4375	0.035	0.3675	0.0520	1.1250	0.049	1.0270	0.1948	2.1250	0.065	1.9950	0.4947
0.4375	0.049	0.3395	0.0703	1.1250	0.058	1.0090	0.2286	2.2500	0.095	2.0600	0.7564
0.4375	0.065	0.3075	0.0895	1.1250	0.065	0.9950	0.2546	2.2500	0.120	2.0100	0.9443
0.5000	0.028	0.4440	0.0488	1.1250	0.083	0.9590	0.3195	2.2500	0.049	2.1520	0.3984
0.5000	0.035	0.4300	0.0601	1.1250	0.095	0.9350	0.3615	2.2500	0.065	2.1200	0.5247
0.5000	0.049	0.4020	0.0816	1.2500	0.120	1.0100	0.5010	2.2500	0.083	2.0840	0.6645
0.5000	0.058	0.3840	0.0947	1.2500	0.035	1.1800	0.1571	2.3750	0.188	1.9990	1.5190
0.5000	0.065	0.3700	0.1045	1.2500	0.049	1.1520	0.2174	2.5000	0.065	2.3700	0.5847
0.5000	0.083	0.3340	0.1279	1.2500	0.058	1.1340	0.2554	2.5000	0.120	2.2600	1.0551
0.5000	0.095	0.3100	0.1421	1.2500	0.065	1.1200	0.2846	2.5000	0.049	2.4020	0.4437
0.5000	0.120	0.2600	0.1685	1.2500	0.083	1.0840	0.3579	2.5000	0.083	2.3340	0.7412
0.6250	0.028	0.5690	0.0618	1.2500	0.095	1.0600	0.4054	2.5000	0.125	2.2500	1.0968
0.6250	0.035	0.5550	0.0763	1.2500	0.125	1.0000	0.5195	2.7500	0.065	2.6200	0.6448
0.6250	0.049	0.5270	0.1043	1.3750	0.035	1.3050	0.1733	3.0000	0.065	2.8700	0.7048
0.6250	0.058	0.5090	0.1215	1.3750	0.049	1.2770	0.2400	3.0000	0.120	2.7600	1.2768
0.6250	0.065	0.4950	0.1345	1.3750	0.058	1.2590	0.2822	3.0000	0.035	2.9300	0.3834
0.6250	0.083	0.4590	0.1662	1.3750	0.065	1.2450	0.3146	3.0000	0.049	2.9020	0.5342
0.6250	0.125	0.3750	0.2309	1.3750	0.083	1.2090	0.3962	3.0000	0.125	2.7500	1.3277
0.6250	0.156	0.3130	0.2703	1.5000	0.035	1.4300	0.1894	3.5000	0.065	3.3700	0.8249
0.6875	0.058	0.5715	0.1349	1.5000	0.049	1.4020	0.2627	4.0000	0.065	3.8700	0.9450
0.7500	0.120	0.5100	0.2793	1.5000	0.058	1.3840	0.3090	4.0000	0.125	3.7500	1.7895
0.7500	0.028	0.6940	0.0747	1.5000	0.065	1.3700	0.3446	4.5000	0.375	3.7500	5.7149
0.7500	0.035	0.6800	0.0925	1.5000	0.083	1.3340	0.4345	5.0000	0.035	4.9300	0.6420
0.7500	0.049	0.6520	0.1269	1.5000	0.095	1.3100	0.4931	5.0000	0.065	4.8700	1.1851
0.7500	0.058	0.6340	0.1483	1.6250	0.049	1.5270	0.2853				



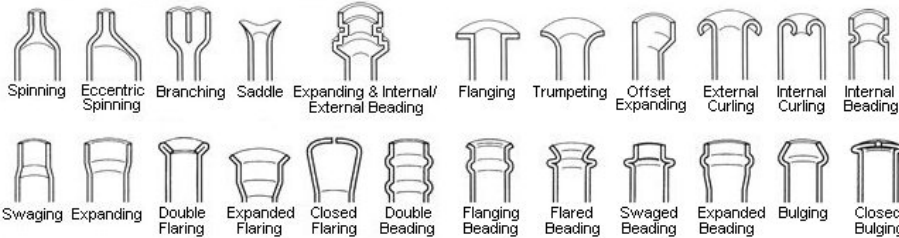
**Table II "Tube in Coil"**

Standard Drawn Level Wound Coil (LWC)				
Normal Size (in.)	O.D. (in.)	Ovality (in.)	Wall (in.)	Wt/Ft (lbs.)
.375 x .049	.376 ± .003	± .006	± .003	0.0592
.500 x .049	.502 ± .003	± .011	± .003	0.0820
.625 x .049	.627 ± .003	± .017	± .003	0.1046
.750 x .049	.753 ± .003	± .025	± .003	0.1275
Non-Standard Drawn Level Wound Coil (LWC)				
O.D. Size (in.)	Wall (in.)	O.D. Size (mm)	Wall (mm)	
0.150 to 2.000	≥ 0.015	4 to 50	≥ 0.4	



**Other Options Available**

- Custom fabrication services available from custom cut-lengths from coil and from straight lengths, as well as punching, miter angle cutting, drilling, tapping and end forming.



- J.I.T (Just-In-Time) stocking program available.
- DAYCO provides wet paint, powder coating and anodizing services.

