



Integral High-Finned Copper Tube

DAYCO offers Copper Hi-Fin tube designed primarily for applications which require high Exterior-to-Interior surface area ratios, such as direct fired water heaters, boilers, and applications for heating or cooling gases. Integral high-finned product is manufactured to a precise inside diameter to allow end connections of insert type or with the fins removed from the tube ends (stripped ends) for expanding into tube sheets or insertion into other end connections. Minimum wall thickness is held to meet code requirements for pressure designs. Maximum fin diameters are held to permit control of tube spacing. The product may be manufactured to meet the requirements of the ASME Pressure Vessel Code.



- Sizes shown within the tables below are produced in UNS C12200 Copper Alloy (Deoxidized High Residual Phosphorus, DHP)(ASME SB 75). With a variety of grades available DAYCO is sure to have a product, which will meet your needs.



Consumer Grade



ASME Certified



Commercial ASME Certified

- Tempers - Mechanical properties of the material in the "as finned temper" meet the requirements of an "as drawn temper" specified in ASME SB-359. Annealed temper tubes are supplied with a minimum average grain size of 0.040 mm.

- DAYCO processes long lengths which have been optimized for the shorter lengths our clients require.

This allows DAYCO to operate with very low scrap yields. Cut-To-Length finned tube is shipped in either full lengths as specified by the customer or to custom lengths utilizing a high speed precision CNC saw.



- The Finned tube is shipped with either fully finned ends or stripped ends. The finned ends can be striped to specified depth while providing specified OD for use into header sheets.



- Each tube (prior to cutting to the finished length) shall pass a 250 psi pneumatic leak test for a minimum of 5 seconds. A hydrostatic test at a pressure not to exceed 1000 psi may be performed as an option.

- The Product below is listed in tables beginning with 5 fins/inch then proceed to 7,8 and 9 fins per inch.

Dimensional Data - 5 Fins Per Inch Model										
Nominal Inside Diameter inch	Actual Inside Diameter inch	Minimum Wall Under Fin inch	Maximum Fin Diameter inch	Minimum Fin Height inch	Minimum Root Diameter inch	Nominal Wall Thickness inch	Nominal Outside Surface Area ft ² /ft	Surface Area Ratio Outside to Inside	Nominal Inside Cross Sectional Area in ²	Weight Per Unit Length lb/ft
1/2	0.506	0.061	1.438	0.350	0.625	0.065	1.158	8.17	0.192	0.987
7/8	0.881	0.061	1.854	0.375	1.000	0.065	1.710	7.41	0.610	1.726
7/8	0.881	0.068	1.906	0.350	1.014	0.072	1.964	8.51	0.610	2.107
1	1.007	0.061	1.938	0.350	1.125	0.065	1.857	7.04	0.796	1.968

Product Tables for 7,8 and 9 fins per inch are on the next page!

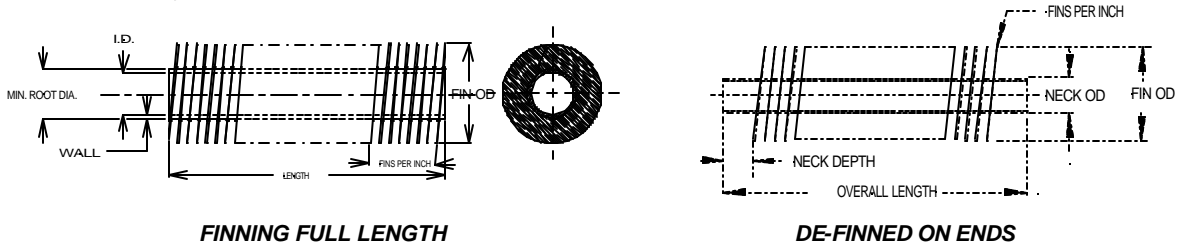
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Dimensional Data - 7 Fins Per Inch Model										
Nominal Inside Diameter inch	Actual Inside Diameter inch	Minimum Wall Under Fin inch	Maximum Fin Diameter inch	Minimum Fin Height inch	Minimum Root Diameter inch	Nominal Wall Thickness inch	Nominal Outside Surface Area ft ² /ft	Surface Area Ratio Outside to Inside	Nominal Inside Cross Sectional Area in ²	Weight Per Unit Length lb/ft
3/8	0.381	0.032	1.063	0.260	-----	0.035	0.870	8.72	0.111	0.585
1/2	0.506	0.061	1.438	0.350	6.250	0.065	1.555	11.70	0.192	1.160
5/8	0.631	0.039	1.562	0.350	0.706	0.042	1.727	10.45	0.313	1.210
5/8	0.631	0.046	1.562	0.375	0.720	0.049	1.742	10.53	0.313	1.300
5/8	0.631	0.050	1.480	0.355	0.723	0.053	1.680	10.17	0.313	1.385
5/8	0.631	0.055	1.562	0.350	0.735	0.058	1.734	10.50	0.313	1.429
5/8	0.631	0.058	1.562	0.350	0.750	0.062	1.736	10.51	0.313	1.438
5/8	0.631	0.061	1.562	0.350	0.750	0.065	1.759	10.62	0.313	1.460
5/8	0.623	0.066	1.562	0.350	0.761	0.069	1.757	10.77	0.305	1.617
3/4	0.756	0.055	1.688	0.350	0.863	0.058	1.952	9.86	0.449	1.490
3/4	0.756	0.068	1.688	0.350	0.891	0.062	1.935	9.78	0.449	1.640
7/8	0.881	0.046	1.859	0.375	0.968	0.065	2.293	9.94	0.610	1.750
7/8	0.881	0.058	1.857	0.375	0.994	0.069	2.290	9.93	0.610	2.003
7/8	0.881	0.060	1.857	0.375	0.998	0.058	2.290	9.93	0.610	2.035
7/8	0.881	0.061	1.859	0.375	1.000	0.072	2.340	10.13	0.610	1.940
7/8	0.881	0.064	1.859	0.375	1.006	0.049	2.291	9.93	0.610	1.977
7/8	0.881	0.068	1.906	0.400	1.014	0.062	2.623	11.37	0.610	2.060
7/8	0.879	0.068	1.810	0.375	1.014	0.065	2.342	10.15	0.607	2.100
1	1.007	0.061	1.938	0.350	1.125	0.068	2.470	9.37	0.796	2.180
1 1/4	1.257	0.061	2.203	0.350	1.375	0.072	2.880	8.76	1.241	2.360

Dimensional Data - 8 Fins Per Inch Model										
Nominal Inside Diameter inch	Actual Inside Diameter inch	Minimum Wall Under Fin inch	Maximum Fin Diameter inch	Minimum Fin Height inch	Minimum Root Diameter inch	Nominal Wall Thickness inch	Nominal Outside Surface Area ft ² /ft	Surface Area Ratio Outside to Inside	Nominal Inside Cross Sectional Area in ²	Weight Per Unit Length lb/ft
5/8	0.631	0.061	1.250	0.210	0.750	0.065	1.108	6.71	0.313	1.336
7/8	0.881	0.046	1.857	0.375	0.968	0.049	2.585	11.21	0.610	1.776
7/8	0.881	0.061	1.857	0.375	1.000	0.065	2.592	11.24	0.610	2.250

Dimensional Data - 9 Fins Per Inch Model										
Nominal Inside Diameter inch	Actual Inside Diameter inch	Minimum Wall Under Fin inch	Maximum Fin Diameter inch	Minimum Fin Height inch	Minimum Root Diameter inch	Nominal Wall Thickness inch	Nominal Outside Surface Area ft ² /ft	Surface Area Ratio Outside to Inside	Nominal Inside Cross Sectional Area in ²	Weight Per Unit Length lb/ft
5/16	0.318	0.032	0.938	0.240	N/D	0.035	0.876	10.52	0.077	0.540
3/8	0.381	0.032	1.063	0.260	N/D	0.035	1.085	10.87	0.111	0.630
1/2	0.506	0.061	1.438	0.350	0.625	0.065	1.952	14.69	0.192	1.260
5/8	0.631	0.039	1.562	0.375	0.706	0.042	2.180	13.19	0.313	1.306
5/8	0.631	0.046	1.562	0.375	0.720	0.049	2.195	13.57	0.313	1.350
5/8	0.631	0.061	1.562	0.350	0.750	0.065	2.177	13.18	0.313	1.480

- To inquire into Dayco Hi-Fin product, contact an DAYCO sales representative



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