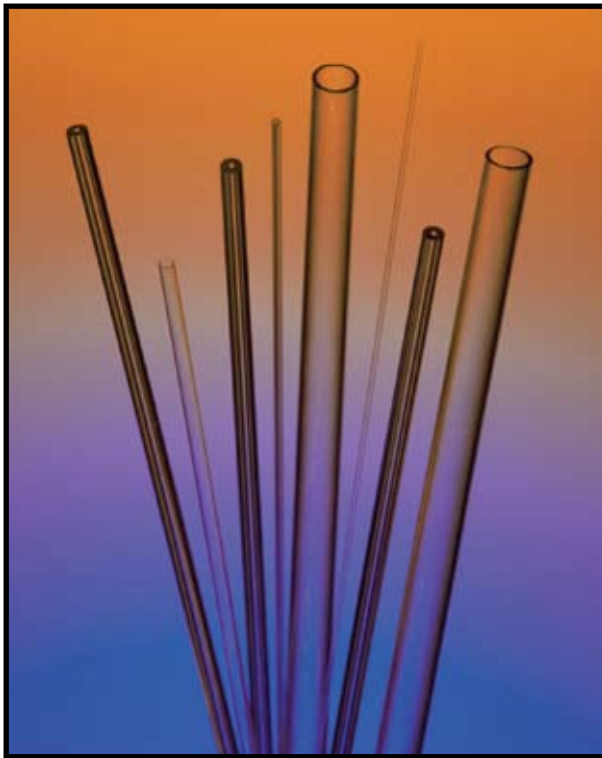


Section 7

PRECISION BORE QUARTZ TUBING



Wilmad also produces ultra-precision, uniform bore tubing in quartz including natural and synthetic. In most cases, we can hold the same tolerances as we do for Pyrex, Duran or KG-33 glass, particularly for I.D.s less than 1". O.D.s can be ground concentrically or can be centerless ground and polished. We can hold the wall tolerance to ± 0.001 " or less in most sizes listed here. Precision quartz tubing is also available in square and rectangular shapes, and square tubing is produced in sizes ranging from 3mm x 6" long up to 1 1/2" x 12" long as specified in Section 8 of this catalog. Many other sizes and shapes of quartz tubing are also manufactured. Please refer to Section 9 of this catalog for specifics.

Inner Diam. inches	Inner Diam. mm	Length inches	Length mm
.0170	.4318	3.5	88.90
.0200	.5080	15	381.00
.0210	.5334	12	304.80
.0239	.6070	12	304.80
.0245	.6223	12	304.80
.0250	.6350	10	254.00
.0262	.6654	6	152.40
.0271	.6883	12	304.80
.0285	.7239	6	152.40
.0300	.7620	12	304.80
.0321	.8153	12	304.80
.0353	.8966	12	304.80
.0370	.9398	13	330.20
.0392	.9957	12	304.80
.0393	.9982	23	584.20
.0397	1.0084	28	711.20
.0401	1.0185	13	330.20
.0423	1.0744	18	457.20
.0450	1.1430	18	457.20
.0473	1.2014	13	330.20
.0500	1.2700	12	304.80
.0515	1.3081	12	304.80
.0555	1.4097	13	330.20
.0578	1.4681	13	330.20
.0583	1.4808	13	330.20
.0592	1.5036	36	914.40
.0611	1.5519	12	304.80
.0621	1.5773	21	533.40

Inner Diam. inches	Inner Diam. mm	Length inches	Length mm
.0632	1.6052	12	304.80
.0643	1.6332	18	457.20
.0648	1.6459	12	304.80
.0653	1.6586	18	457.20
.0661	1.6789	10	254.00
.0671	1.7043	42	1066.80
.0689	1.7500	10	254.00
.0703	1.7856	21	533.40
.0710	1.8034	20	508.00
.0715	1.8161	23	584.20
.0720	1.8288	18	457.20
.0722	1.8338	10	254.00
.0730	1.8542	23	584.20
.0754	1.9151	21	533.40
.0786	1.9964	39	990.60
.0791	2.0091	18	457.20
.0823	2.0904	18	457.20
.0853	2.1666	9	228.60
.0859	2.1818	14	355.60
.0867	2.2021	38	965.20
.0876	2.2250	18	457.20
.0891	2.2631	20	508.00
.0903	2.2936	18	457.20
.0913	2.3190	18	457.20
.0924	2.3470	18	457.20
.0926	2.3520	12	304.80
.0934	2.3724	18	457.20
.0940	2.3876	18	457.20

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Inner Diam. inches	Inner Diam. mm	Length inches	Length mm
.0944	2.3978	44	1117.60
.0956	2.4282	9	228.60
.0985	2.5019	33	838.20
.0988	2.5095	22	558.80
.1003	2.5476	18	457.20
.1041	2.6441	12	304.80
.1050	2.6670	12	304.80
.1073	2.7254	40	1016.00
.1100	2.7940	18	457.20
.1117	2.8372	19	482.60
.1123	2.8524	18	457.20
.1134	2.8804	18	457.20
.1148	2.9159	11	279.40
.1183	3.0048	39	990.60
.1198	3.0429	19	482.60
.1219	3.0963	12	304.80
.1243	3.1572	18	457.20
.1250	3.1750	12	304.80
.1263	3.2080	44	1117.60
.1280	3.2512	12	304.80
.1298	3.2969	18	457.20
.1319	3.3517	18	457.20
.1340	3.4036	18	457.20
.1351	3.4315	18	457.20
.1354	3.4391	13	330.20
.1384	3.5153	33	838.20
.1407	3.5737	13	330.20
.1476	3.7490	12	304.80
.1495	3.7973	18	457.20
.1519	3.8582	18	457.20
.1551	3.9395	13	330.20
.1570	3.9878	13	330.20
.1575	4.0005	39	990.60
.1601	4.0665	18	457.20
.1640	4.1681	12	304.80
.1657	4.2087	18	457.20
.1695	4.3053	12	304.80
.1700	4.3180	12	304.80
.1737	4.4120	20	508.00
.1768	4.4907	21	533.40
.1777	4.5136	46	1168.40
.1780	4.5212	28	711.20
.1795	4.5593	14	355.60
.1804	4.5822	18	457.20
.1810	4.5974	12	304.80
.1816	4.6126	18	457.20
.1876	4.7650	12	304.80
.1882	4.7803	13	330.20
.1886	4.7904	18	457.20
.1903	4.8336	20	508.00
.1941	4.9301	13	330.20
.1958	4.9733	18	457.20
.1965	4.9911	18	457.20
.1968	4.9987	42	1066.80

Inner Diam. inches	Inner Diam. mm	Length inches	Length mm
.1976	5.0190	18	457.20
.1985	5.0419	46	1168.40
.2011	5.1079	20	508.00
.2030	5.1562	42	1066.80
.2032	5.1612	16	406.40
.2042	5.1867	18	457.20
.2059	5.2298	18	457.20
.2089	5.3061	12	304.80
.2100	5.3340	18	457.20
.2120	5.3848	20	508.00
.2141	5.4381	16	406.40
.2177	5.5296	18	457.20
.2190	5.5626	18	457.20
.2193	5.5702	40	1016.00
.2201	5.5905	18	457.20
.2206	5.6032	13	330.20
.2210	5.6134	18	457.20
.2248	5.7099	12	304.80
.2283	5.7988	40	1016.00
.2284	5.8014	18	457.20
.2301	5.8445	12	304.80
.2314	5.8776	45	1143.00
.2334	5.9284	20	508.00
.2358	5.9893	28	711.20
.2365	6.0071	44	1117.60
.2397	6.0883	18	457.20
.2400	6.0960	18	457.20
.2430	6.1722	11	279.40
.2451	6.2255	18	457.20
.2489	6.3221	18	457.20
.2500	6.3500	18	457.20
.2505	6.3627	18	457.20
.2510	6.3754	39	990.60
.2515	6.3881	11	279.40
.2525	6.4135	12	304.80
.2530	6.4262	45	1143.00
.2558	6.4973	10	254.00
.2561	6.5049	39	990.60
.2626	6.6700	18	457.20
.2703	6.8656	13	330.20
.2704	6.8682	46	1168.40
.2719	6.9063	12	304.80
.2723	6.9164	46	1168.40
.2758	7.0053	40	1016.00
.2774	7.0460	12	304.80
.2779	7.0586	15	381.00
.2784	7.0714	42	1066.80
.2801	7.1145	18	457.20
.2826	7.1780	8	203.20
.2842	7.2187	13	330.20
.2873	7.2974	18	457.20
.2900	7.3660	18	457.20
.2914	7.4016	18	457.20
.2941	7.4701	12	304.80

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Inner Diam. inches	Inner Diam. mm	Length inches	Length mm
.2948	7.4879	18	457.20
.3044	7.7318	20	508.00
.3073	7.8054	12	304.80
.3132	7.9552	11	279.40
.3141	7.9781	7	177.80
.3148	7.9959	18	457.20
.3156	8.0162	40	1016.00
.3188	8.0975	10	254.00
.3212	8.1585	12	304.80
.3255	8.2677	12	304.80
.3301	8.3845	12	304.80
.3342	8.4887	18	457.20
.3353	8.5166	20	508.00
.3398	8.6309	18	457.20
.3410	8.6614	12	304.80
.3422	8.6918	45	1143.00
.3435	8.7249	18	457.20
.3453	8.7706	12	304.80
.3480	8.8392	18	457.20
.3544	9.0017	16	406.40
.3545	9.0043	18	457.20
.3568	9.0627	18	457.20
.3600	9.1440	12	304.80
.3664	9.3065	18	457.20
.3672	9.3267	18	457.20
.3677	9.3396	18	457.20
.3701	9.4005	20	508.00
.3703	9.4056	12	304.80
.3710	9.4234	18	457.20
.3753	9.5326	12	304.80
.3756	9.5402	21	533.40
.3799	9.6494	18	457.20
.3852	9.7840	17	431.80
.3934	9.9923	42	1066.80
.3958	10.0533	21	533.40
.3972	10.0889	18	457.20
.4034	10.2464	18	457.20
.4056	10.3022	18	457.20
.4090	10.3886	11	279.40
.4100	10.4140	18	457.20
.4151	10.5435	18	457.20
.4173	10.5994	18	457.20
.4191	10.6451	18	457.20
.4196	10.6578	18	457.20
.4210	10.6934	18	457.20
.4284	10.8814	18	457.20
.4300	10.9220	18	457.20
.4330	10.9982	42	1066.80
.4350	11.0490	18	457.20
.4424	11.2369	11	279.40
.4562	11.5874	20	508.00
.4596	11.6738	18	457.20
.4620	11.7348	11	279.40
.4650	11.8110	12	304.80

Inner Diam. inches	Inner Diam. mm	Length inches	Length mm
.4663	11.8440	18	457.20
.4671	11.8643	12	304.80
.4724	11.9900	42	1066.80
.4752	12.0700	18	457.20
.4789	12.1641	11	279.40
.4831	12.2707	12	304.80
.4850	12.3190	8	203.20
.4926	12.5120	18	457.20
.4960	12.5984	11	279.40
.4964	12.6085	42	1066.80
.4985	12.6619	12	304.80
.4993	12.6822	11	279.40
.5001	12.7025	18	457.20
.5005	12.7127	18	457.20
.5020	12.7508	20	508.00
.5103	12.9616	11	279.40
.5119	13.0022	28	711.20
.5203	13.2156	18	457.20
.5220	13.2588	12	304.80
.5226	13.2740	12	304.80
.5250	13.3350	18	457.20
.5293	13.4442	11	279.40
.5302	13.4670	18	457.20
.5314	13.4975	12	304.80
.5434	13.8024	12	304.80
.5494	13.9548	44	1117.60
.5515	14.0081	42	1066.80
.5524	14.0310	12	304.80
.5526	14.0360	18	457.20
.5634	14.3104	10	254.00
.5701	14.4805	12	304.80
.5703	14.4856	18	457.20
.5761	14.6329	12	304.80
.5805	14.7447	12	304.80
.5841	14.8361	18	457.20
.5904	14.9962	18	457.20
.5940	15.0876	18	457.20
.5972	15.1689	19	482.60
.6000	15.2400	18	457.20
.6042	15.3466	12	304.80
.6053	15.3746	18	457.20
.6070	15.4178	18	457.20
.6097	15.4864	12	304.80
.6121	15.5473	21	533.40
.6143	15.6032	11	279.40
.6181	15.6997	18	457.20
.6224	15.8090	32	812.80
.6240	15.8496	17	431.80
.6259	15.8978	22	558.80
.6293	15.9842	18	457.20
.6301	16.0045	18	457.20
.6315	16.0401	18	457.20
.6378	16.2001	13	330.20
.6405	16.2687	12	304.80

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Inner Diam. inches	Inner Diam. mm	Length inches	Length mm
.6469	16.4312	18	457.20
.6540	16.6116	42	1066.80
.6558	16.6573	13	330.20
.6560	16.6624	19	482.60
.6625	16.8275	18	457.20
.6680	16.9672	18	457.20
.6692	16.9977	18	457.20
.6700	17.0180	18	457.20
.6708	17.0383	18	457.20
.6848	17.3939	14	355.60
.6902	17.5311	18	457.20
.6915	17.5641	18	457.20
.6975	17.7165	42	1066.80
.7086	17.9984	18	457.20
.7106	18.0492	42	1066.80
.7203	18.2956	22	558.80
.7205	18.3007	12	304.80
.7265	18.4531	18	457.20
.7272	18.4709	11	279.40
.7330	18.6182	11	279.40
.7454	18.9332	18	457.20
.7489	19.0220	20	508.00
.7500	19.0500	38	965.20
.7502	19.0551	18	457.20
.0751	19.0652	18	457.20
.7674	19.4919	18	457.20
.7809	19.8349	18	457.20
.7868	19.9847	18	457.20
.7874	19.9999	18	457.20
.7910	20.0914	18	457.20
.7915	20.1041	18	457.20
.8002	20.3250	18	457.20
.8073	20.5054	18	457.20
.8151	20.7035	18	457.20
.8162	20.7315	18	457.20
.8304	21.0922	27	685.80
.8403	21.3436	28	711.20
.8415	21.3741	18	457.20
.8428	21.4071	52	1320.80
.8504	21.6001	18	457.20
.8658	21.9913	22	558.80
.8661	21.9989	22	558.80
.8673	22.0294	22	558.80
.8753	22.2326	18	457.20
.8846	22.4688	18	457.20
.8900	22.6060	13	330.20
.9068	23.0327	14	355.60
.9082	23.0682	22	558.80
.9111	23.1419	18	457.20
.9223	23.4264	18	457.20
.9289	23.5941	16	406.40
.9360	23.7744	18	457.20
.9451	24.0055	35	889.00
.9592	24.3637	18	457.20

Inner Diam. inches	Inner Diam. mm	Length inches	Length mm
0.9745	24.7523	18	457.20
0.9852	25.0241	40	1016.00
1.0004	25.4102	40	1016.00
1.0040	25.5016	18	457.20
1.0080	25.6032	37	939.80
1.0083	25.6108	48	1219.20
1.0089	25.6261	40	1016.00
1.0226	25.9740	40	1016.00
1.0240	26.0096	40	1016.00
1.0325	26.2255	18	457.20
1.0393	26.3982	18	457.20
1.0788	27.4015	42	1066.80
1.0856	27.5742	18	457.20
1.1020	27.9908	20	508.00
1.1122	28.2499	17	431.80
1.1201	28.4505	18	457.20
1.1605	29.4767	18	457.20
1.1762	29.8755	18	457.20
1.1845	30.0863	18	457.20
1.1886	30.1904	18	457.20
1.2500	31.7500	18	457.20
1.2597	31.9964	17	431.80
1.2633	32.0878	17	431.80
1.2994	33.0047	18	457.20
1.3140	33.3760	18	457.20
1.3400	34.0360	18	457.20
1.3758	34.9453	17	431.80
1.3974	35.4940	17	431.80
1.4385	36.5379	8	203.20
1.4568	37.0027	17	431.80
1.4885	37.8079	17	431.80
1.4982	38.0543	17	431.80
1.6145	41.0083	24	609.60
1.7323	44.0004	18	457.20
1.7480	44.3992	18	457.20
1.7503	44.4576	18	457.20
1.8425	46.7995	16	406.40
1.8708	47.5183	8	203.20
1.9406	49.2912	18	457.20
2.0994	53.3248	12	304.80
2.6085	66.2559	24	609.60