

# Copper Tube TO AS 1571

## SEAMLESS COPPER TUBE



## USAGE

### High and low-pressure applications including:

- Air Conditioning
- Refrigeration
- Mechanical Services
- Medical Gas Lines

## BENEFITS

- Manufactured to Australia / New Zealand standard AS/NZ 1571.
- Premium quality Australian Copper.
- MM Kembla have a range of tubes and fittings suitable for the new R410A and CO2 Ozone friendly refrigerant.
- Kembla Refrigeration Tube is stocked nationwide for prompt delivery.
- Backed by MM Kembla's reputation for quality, service and customer care.
- Supported by a full range of copper Refrigeration Fittings.

## FEATURES

- Seamless Copper tube. Available in sizes 4.76mm up to and including 104.78mm, in various wall thicknesses.
- The internal cleanliness of airconditioning , refrigeration and medical gas tube is critical in order to prevent contamination to the components in the piping system. MM Kembla has a unique manufacturing process and certified laboratory to confirm that the total residue does not exceed 0.038g/m<sup>2</sup> as specified in AS/NZ 1571. All MM Kembla Refrigeration Tubes are cleaned and capped.
- Pink capped tube has been specifically designed to meet the requirements of R410A air conditioning and refrigeration applications. Also identifiable by a continuous ink mark "KEMBLA AUSTRALIA AS/NZS 1571 (diameter) X (wall thickness) HIGH PRESSURE REFRIGERATION TUBE"
- Pink capped tube can also be installed for use with R22, R134a and other lower pressure refrigerants
- Tube wall thickness will determine which refrigerant is suitable, depending upon temperature range.
- The full range of straight lengths and annealed coils are listed overleaf.
- Half Hard tube can be bent using bending tools without applying additional heat.

## INSTALLATION

- Copper tubes and fittings can be successfully joined by silver brazing or flaring.
- Silver brazing shall be carried out by professional tradespersons using brazing principles and safety procedures in accordance with AS HB40.
- The use of 15% silver solder is recommended when brazing tube or fittings for use with R410a or other high pressure refrigerants. A proprietary silver brazing flux shall be used.
- R410A has a 60% higher operating pressure than R22 thus requiring a thicker wall copper tube and significantly stronger (R410A) copper fittings. The minimum allowable tube wall thickness shall be 0.81mm. See table over leaf.

SPECIFICATIONS														
Actual tube size				Safe Working Pressure (kPa)						Form				
OD (inches)	OD (mm)	Wall Thickness (mm)	Nominal tube mass (kg/6m)	Service Temperature (°C)						Annealed coils (m)	T Code	Straight Lengths (6m)	T Code (6m)	T Code (5.8m)
				50	55	60	65	70	75					
3/16"	4.76	0.71	0.48	12715	12280	11845	11410	10980	10545	30	T32263			
1/4"	6.35	0.71	0.68	9175	8860	8550	8235	7920	7610	15	T59423			
	6.35	0.81	0.76	10635	10270	9910	9545	9180	8820	30	T74634	✓	T51435	
	6.35	0.91	0.83	12140	11730	11315	10900	10485	10070	30	T32336	✓	T92029	
5/16"	7.94	0.81	0.97	8290	8005	7725	7440	7160	6875	30	T32522			
	7.94	0.91	1.08	9430	9110	8790	8465	8145	7820	30	T32522			
3/8"	9.52	0.71	1.05	5900	5700	5495	5295	5095	4895	15	T32780			
	9.52	0.81	1.19	6800	6570	6335	6105	5870	5640	18	T55743	✓	T77112	T77111
	9.52	0.91	1.32	7720	7455	7190	6930	6665	6400	18	T32662	✓	T56847	
1/2"	12.70	0.71	1.44	4345	4195	4050	3900	3750	3605	15	T33007			
	12.70	0.81	1.62	4995	4825	4655	4480	4310	4140	18	T54133	✓✓	T10287	T10286
	12.70	0.91	1.81	5655	5460	5270	5075	4880	4685	18	T32930	✓✓	T22527	
5/8"	15.88	0.81	2.06	3945	3810	3675	3540	3405	3270	15	T52078			
	15.88	0.91	2.30	4460	4310	4155	4000	3850	3700	18	T33090	✓✓	T24937	T24938
	15.88	1.02	2.56	5030	4860	4690	4515	4345	4170	18	T16850	✓✓	T16870	T16871
3/4"	19.05	0.91	2.78	3600	3475	3355	3230	3110	2985	15	T33296	✓✓	T88072	T88073
	19.05	1.02	3.10	4150	4010	3870	3725	3585	3445			✓✓	T24813	
	19.05	1.14	3.44	4670	4510	4350	4190	4030	3870	18	T16857	✓	T16855	T16856
7/8"	22.22	0.91	3.27	3140	3030	2925	2815	2710	2600	18	T76198	✓✓	T13862	T13864
	22.22	1.22	4.32	4265	4120	3970	3830	3680	3535			✓	T64173	
	22.22	1.40	4.91	4930	4760	4595	4425	4255	4090			✓	T16860	
	22.22	1.63	5.66	5795	5600	5400	5205	5005	4805			✓	T23515	
1"	25.40	0.91	3.76	2730	2640	2545	2450	2360	2265			✓	T60658	T60659
	25.40	1.22	4.97	3705	3580	3450	3325	3200	3070			✓	T91952	T91953
	25.40	1.63	6.53	5025	4855	4685	4510	4340	4170			✓	T79850	T798461
1/8"	28.58	0.91	4.25	2420	2335	2255	2170	2090	2005			✓	T73971	T73973
	28.58	1.22	5.63	3275	3165	3050	2940	2830	2715			✓	T91961	T91963
	28.58	1.63	7.41	4435	4285	4135	3980	3830	3680			✓	T14559	
	28.58	1.83	8.25	5015	4845	4670	4500	4330	4160			✓	T14569	T14570
1 1/4"	31.75	0.91	4.73	2170	2095	2025	1950	1875	1800			✓	T22039	T22040
	31.75	1.22	6.28	2935	2835	2735	2635	2535	2435			✓	T91979	
	31.75	2.03	10.17	5005	4835	4665	4495	4325	4150			✓	T21820	
1 3/8"	34.92	0.91	5.22	1970	1900	1835	1770	1700	1635			✓	T15237	T15239
	34.92	1.22	6.93	2660	2570	2480	2390	2300	2210			✓	T91987	T91989
	34.92	2.03	11.26	4525	4370	4220	4065	3910	3755			✓	T75980	T75981
1 1/2"	38.10	1.22	7.59	2435	2350	2265	2185	2100	2020			✓	T91995	T91996
	38.10	2.29	13.83	4690	4530	4370	4210	4050	3890			✓		
1 5/8"	41.28	0.91	6.19	1660	1605	1545	1490	1435	1375			✓	T32921	T32923
	41.28	1.22	8.24	2240	2165	2090	2010	1935	1860			✓	T91791	T91793
	41.28	2.41	15.79	4550	4390	4235	4080	3925	3770			✓	T16865	T16866
2"	50.80	1.22	10.20	1810	1750	1690	1625	1565	1500			✓	T94943	
2 1/8"	53.98	0.91	8.14	1265	1220	1175	1135	1090	1050			✓	T78166	T78167
	53.98	1.22	10.85	1705	1645	1585	1530	1470	1410			✓	T94960	T94961
	53.98	1.63	14.39	2290	2215	2135	2055	1980	1900			✓	T94951	
2 5/8"	66.68	1.22	13.46	1375	1325	1280	1230	1185	1140			✓	T31976	T31978
	66.68	1.63	17.88	1845	1780	1720	1655	1595	1530			✓	T75566	
	66.68	2.03	22.13	2310	2230	2150	2075	1995	1915			✓	T68980	
3"	76.20	1.63	20.49	1610	1555	1500	1445	1390	1335			✓	T88013	
4"	101.60	1.63	27.47	1200	1160	1120	1080	1035	995			✓	T20923	T20924
4 1/8"	104.78	2.79	47.98	2015	1945	1875	1805	1740	1670			✓		

■ R410A High Pressure compatible

✓✓ Half hard Temper

✓ Hard Temper

**For further information:** Refer to the current edition of The Plumbers Handbook available through your MM Kembla representative or contact Customer Service on 1800 804 631.