KEMBLA

Copper Tube TO AS/NZS 1571

SEAMLESS COPPER TUBE

USAGE

High and low-pressure applications including:

- Air Conditioning
- Refrigeration
- Mechanical Services
- Medical Gas

BENEFITS

- Backed by MM Kembla's reputation for quality, service and customer care for nearly 100 years.
- Manufactured to Australia/New Zealand standard AS/NZS 1571.
- MM Kembla have a range of tubes and fittings suitable for the new R410A and CO^2 Ozone friendly refrigerant.
- Kembla Refrigeration Tube is stocked nationwide for prompt delivery.
- 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 air conditioning , 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/m² as specified in AS/NZS 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 trades persons 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.

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AS/NZS 1571 SPECIFICATIONS

ACTUAL TUBE SIZE				SAFE WORKING PRESSURE (KPA)						FORM				
OD (inches)	OD (mm)	Wall Thickness (mm)	Nominal tube mass (kg/6m)	Service Temperature (°C) 50	55	60	65	70	75	Annealed coils (m)	T Code	Straight Lengths (6m)	T Code (6m)	T Code (5.8m)
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	T32512			
	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

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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.

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