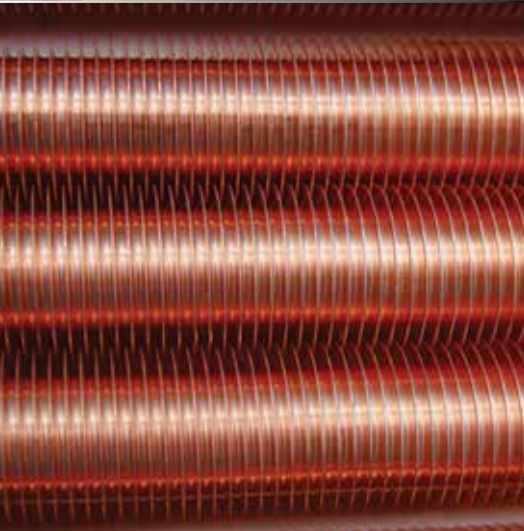




P & P Non Ferrous Copper Tube Catalogue





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Introduction

P & P Non Ferrous are one of the leading Independent Stockists of copper tube in Europe!

With nearly 300 different sizes on the shelf, we have found that the diversity of our range provides multiple industries with the tubing they need to complete jobs with speed and accuracy.

This brochure will illustrate how you can improve your business by making the most of the benefits we have to offer. With a breakdown of all technical capabilities each size in each different specification has, we aim for this to become a tool for you to use in the general running of your day to day business.

Please see our contents page to find the section you are looking for.

If you do not find what you are looking for in the catalogue, please contact us as we are continually developing our range!

Cupro Nickel Tube & Aluminium Brass tube are all available on forward order and are materials that will be added to the ongoing investment into the P & P Non Ferrous tube range!



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SECTION 1

- GENERAL ENGINEERING TUBE
- C106 SOFT/ HALF HARD/ HARD
R220/ R250/R290
- STRAIGHT LENGTHS & COIL
- SPECIFICATION: BSEN12449

General Engineering Copper Tube: For applications such as plumbing, heating and ventilation as well as many other general engineering projects. A lot of the copper tube we supply for general engineering purposes is also used for Steam Railway projects all over the country. All the copper tube in this section is to the BS EN 12449 Standard.



C106 HALF HARD/HARD IN STRAIGHT LENGTHS TO STANDARD BSEN12449

Size	Length	Specification	Temper	Max Working Pressure at 65 C BAR Pressure	PSI	Tolerances on Diameter Dimensions in millimetres	Tolerances On Wall Thickness Tolerance in percentage
3/32"od x 29swg	4 mtr	BSEN12449	Half Hard/R250	210	3040	± 0.12mm	± 15%
3/32"od x 26swg	3 mtr	BSEN12449	Half Hard/R250	285	4132	± 0.12mm	± 15%
1/16"od x 26swg	3 mtr	BSEN12449	Half Hard/R250	485	7033	± 0.12mm	± 15%
1/8"od x 26swg	3 mtr	BSEN12449	Half Hard/R250	202	2926	± 0.12mm	± 15%
1/8"od x 22 swg	3 mtr	BSEN12449	Half Hard/R250	346	5022	± 0.12mm	± 15%
4mm od x 0.6mm wall	3 mtr	BSEN12449	Half Hard/R250	211	3071	± 0.12mm	± 15%
5/32"od x 26swg	3 mtr	BSEN12449	Half Hard/R250	124	1796	± 0.12mm	± 15%
5/32"od x 22 swg	3 mtr	BSEN12449	Half Hard/R250	204	2965	± 0.12mm	± 15%
3/16" od x 26 swg	3 mtr	BSEN12449	Half Hard/R250	127	1847	± 0.12mm	± 15%
3/16"od x 22swg	3 & 6 mtr	BSEN12449	Half Hard/R250	210	3054	± 0.12mm	± 15%
3/16"od x 20swg	3 mtr	BSEN12449	Half Hard/R250	285	4133	± 0.12mm	± 15%
3/16"od x 1/16" id	3 mtr	BSEN12449	Half Hard/R250	622	9021	± 0.12mm	± 13%
6mm od x 1mm wall	3 & 6 mtr	BSEN12449	Half Hard/R250	240	3481	± 0.12mm	± 15%
1/4"od x 20 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	201	2926	± 0.12mm	± 15%
1/4"od x 18 swg	3 mtr	BSEN12449	Half Hard/R250	285	4135	± 0.12mm	± 13%
1/4"od x 16 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	413	5991	± 0.12mm	± 13%
5/16" od x 20 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	156	2267	± 0.12mm	± 15%
5/16" od x 18 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	218	3158	± 0.12mm	± 13%
5/16" od x 16 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	309	4483	± 0.12mm	± 13%
8 mm od x 1mm wall	3 & 6 mtr	BSEN12449	Half Hard/R250	172	2486	± 0.12mm	± 15%
3/8" od x 20 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	127	1847	± 0.12mm	± 15%
3/8" od x 16 swg	4.2 mtr	BSEN12449	Half Hard/R250	247	3583	± 0.12mm	± 13%
10 mm od x 0.8mm wall	3 & 6 mtr	BSEN12449	Half Hard/R250	104	1513	± 0.12mm	± 15%
10mm od x 1 mm wall	3 & 6 mtr	BSEN12449	Half Hard/R250	134	1934	± 0.12mm	± 15%
10 mm od x 1.2 mm wall	3 & 6 mtr	BSEN12449	Half Hard/R250	164	2373	± 0.12mm	± 13%
10 mm od x 1.5 mm wall	3 mtr	BSEN12449	Half Hard/R250	212	3071	± 0.12mm	± 13%
10 mm od x 2 mm wall	3 mtr	BSEN12449	Half Hard/R250	300	4351	± 0.12mm	± 13%
10 mm od x 2.5 mm wall	3 mtr	BSEN12449	Half Hard/R250	400	5802	± 0.12mm	± 13%
0.400"od x 0.245" id	3 & 6 mtr	BSEN12449	Half Hard/R250	290	4213	± 0.16mm	± 13%
0.425" od x 0.258" id	3 mtr	BSEN12449	Half Hard/R250	296	4288	± 0.16mm	± 13%
7/16" od x 20 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	107	1558	± 0.16mm	± 15%
7/16" od x 18 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	148	2146	± 0.16mm	± 13%
7/16" od x 16 swg	5.8 mtr	BSEN12449	Half Hard/R250	206	2983	± 0.16mm	± 13%
7/16" od x 13 swg	3 mtr	BSEN12449	Half Hard/R250	320	4635	± 0.16mm	± 13%
12mm od x 1mm wall	3 & 6 mtr	BSEN12449	Half Hard/R250	110	1582	± 0.16mm	± 15%
12mm od x 1.2mm wall	3 & 6 mtr	BSEN12449	Half Hard/R250	133	1934	± 0.16mm	± 13%
12 mm od x 1.5 mm wall	3 & 6 mtr	BSEN12449	Half Hard/R250	171	2486	± 0.16mm	± 13%
1/2" od x 16 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	176	2556	± 0.16mm	± 13%
1/2" od x 14 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	229	3315	± 0.16mm	± 13%
1/2" od x 10 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	412	5988	± 0.16mm	± 11%
9/16" od x 18 swg	3 mtr	BSEN12449	Half Hard/R250	112	1623	± 0.16mm	± 13%
15mm do x 1.5mm wall	3 & 6 mtr	BSEN12449	Half Hard/R250	133	1934	± 0.16mm	± 13%
15 mm od x 2mm wall	3 & 6 mtr	BSEN12449	Half Hard/R250	185	2678	± 0.16mm	± 13%

Size	Length	Specification	Temper	Max Working Pressure at 65 C BAR Pressure	PSI	Tolerances on Diameter Dimensions in millimetres	Tolerances On Wall Thickness Tolerance in percentage
15 mm od x 2.5mm wall	3 & 6 mtr	BSEN12449	Half Hard/R250	240	3481	± 0.16mm	± 13%
5/8" od x 16 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	137	1986	± 0.16mm	± 13%
5/8" od x 14 swg	3 mtr	BSEN12449	Half Hard/R250	176	2555	± 0.16mm	± 13%
16 mm od x 1.2mm wall	3 & 6 mtr	BSEN12449	Half Hard/R250	97	1411	± 0.16mm	± 13%
17mm od x 2mm wall	3 mtr	BSEN12449	Half Hard/R250	160	2321	± 0.16mm	± 13%
17 mm od x 3 mm wall	3 mtr	BSEN12449	Half Hard/R250	257	3730	± 0.16mm	± 13%
11/16" od x 20 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	66	961	± 0.16mm	± 15%
18 mm od x 2 mm wall	3 mtr	BSEN12449	Half Hard/R250	150	2176	± 0.16mm	± 13%
18 mm od x 2.5 mm wall	3 & 6 mtr	BSEN12449	Half Hard/R250	194	2807	± 0.16mm	± 13%
19 mm od x 1.6 mm wall	4.5 mtr	BSEN12449	Hard/R290	110	1600	± 0.16mm	± 13%
19 mm od x 1.6 mm wall	3 & 6 mtr	BSEN12449	Hard/R290	110	1600	± 0.16mm	± 13%
3/4" od x 20 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	60	877	± 0.16mm	± 15%
3/4" od x 16 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	112	1624	± 0.16mm	± 13%
3/4" od x 14 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	143	2078	± 0.16mm	± 13%
22 mm od x 1mm wall	3 & 6 mtr	BSEN12449	Half Hard/R250	57	829	± 0.24mm	± 15%
22 mm od x 2 mm wall	3 & 6 mtr	BSEN12449	Half Hard/R250	120	1740	± 0.24mm	± 13%
22 mm od x 3mm wall	3 & 6 mtr	BSEN12449	Half Hard/R250	189	2748	± 0.24mm	± 13%
7/8" od x 20 swg	3 mtr	BSEN12449	Half Hard/R250	51	747	± 0.24mm	± 15%
7/8" od x 10 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	206	2983	± 0.24mm	± 11%
25 mm od x 2 mm wall	3 mtr	BSEN12449	Half Hard/R250	104	1513	± 0.24mm	± 13%
1" od x 20 swg	3 mtr	BSEN12449	Half Hard/R250	45	650	± 0.24mm	± 15%
1" od x 18 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	61	877	± 0.24mm	± 13%
1" od x 16 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	82	1190	± 0.24mm	± 13%
1" od x 12 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	139	2021	± 0.24mm	± 13%
1" od x 10 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	176	2555	± 0.24mm	± 11%
28 mm od x 1.5 mm wall	3 & 6 mtr	BSEN12449	Half Hard/R250	68	985	± 0.24mm	± 13%
28 mm od x 2mm wall	3 & 6 mtr	BSEN12449	Half Hard/R250	92	1339	± 0.24mm	± 13%
28 mm od x 2.5 mm wall	3 & 6 mtr	BSEN12449	Half Hard/R250	118	1706	± 0.24mm	± 13%
11/8" od x 10 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	154	2234	± 0.24mm	± 11%
30 mm od x 2mm wall	3 mtr	BSEN12449	Half Hard/R250	86	1243	± 0.24mm	± 13%
1.1/4" od x 16 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	65	939	± 0.30mm	± 13%
1.1/4" od x 12 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	109	1580	± 0.30mm	± 13%
1.1/4" od x 10 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	137	1985	± 0.30mm	± 11%
35 mm od x 0.7 mm wall	3 & 6 mtr	BSEN12449	Half Hard/R250	24	355	± 0.30mm	± 15%
35 mm od x 2mm wall	3 & 6 mtr	BSEN12449	Half Hard/R250	73	1055	± 0.30mm	± 13%
35 mm od x 3 mm wall	3 & 6 mtr	BSEN12449	Half Hard/R250	113	1632	± 0.30mm	± 13%
35 mm od x 3.5mm wall	3 mtr	BSEN12449	Half Hard/R250	133	1934	± 0.30mm	± 11%
38 mm od x 2 mm wall	3 mtr	BSEN12449	Half Hard/R250	67	967	± 0.30mm	± 13%
1.1/2" od x 16 swg	3 mtr	BSEN12449	Half Hard/R250	53	776	± 0.30mm	± 13%
1.1/2" od x 14 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	68	981	± 0.30mm	± 13%
1.1/2" od x 10 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	112	1624	± 0.30mm	± 13%
42 mm od x 1.5 mm wall	3 & 6 mtr	BSEN12449	Half Hard/R250	44	645	± 0.30mm	± 13%
42 mm od x 2mm wall	3 & 6 mtr	BSEN12449	Half Hard/R250	60	870	± 0.30mm	± 13%
42 mm od x 3mm wall	3 & 6 mtr	BSEN12449	Hard/R290	92	1339	± 0.30mm	± 12%
42mm od x 3.658 mm wall	3 mtr	BSEN12449	Hard/R290	114	1660	± 0.30mm	± 12%
44.5 mm od x 2 mm wall	3 mtr	BSEN12449	Half Hard/R250	56	819	± 0.30mm	± 13%

Size	Length	Specification	Temper	Max Working Pressure at 65 C BAR Pressure	PSI	Tolerances on Diameter Dimensions in millimetres	Tolerances On Wall Thickness Tolerance in percentage
1.5/8" od x 10 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	103	1488	± 0.30mm	± 12%
1.3/4" od x 20 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	25	365	± 0.30mm	± 15%
1.3/4" od x 10 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	95	1373	± 0.30mm	± 12%
1.7/8" od x 16 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	42	615	± 0.30mm	± 13%
50 mm od x 1.5 mm wall	3 mtr	BSEN12449	Half Hard/R250	37	538	± 0.30mm	± 13%
2" od x 18 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	30	428	± 0.50mm	± 13%
2" od x 16 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	40	576	± 0.50mm	± 13%
2" od x 14 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	50	725	± 0.50mm	± 13%
2" od 10 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	82	1190	± 0.50mm	± 12%
54 mm od x 3.5 mm wall	3 mtr	BSEN12449	Hard/R290	83	1206	± 0.50mm	± 12%
2.1/4" od x 16 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	35	510	± 0.50mm	± 13%
2.1/4" od x 10 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	72	1050	± 0.50mm	± 12%
2.3/8" od x 16 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	33	482	± 0.50mm	± 13%
2.1/2" od x 16 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	32	457	± 0.50mm	± 13%
64 mm od x 3 mm wall	3 & 6 mtr	BSEN12449	Hard/R290	59	856	± 0.50mm	± 12%
2.7/8" od x 16 swg	3.84 mtr	BSEN12449	Half Hard/R250	27	396	± 0.50mm	± 13%
3" od x 16 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	26	379	± 0.50mm	± 13%
3" od x 14 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	33	477	± 0.50mm	± 13%
3" od x 10 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	53	776	± 0.50mm	± 12%
3.1/8" od x 16 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	25	364	± 0.50mm	± 13%
88.9 mm od x 2.5 mm wall	3 mtr	BSEN12449	Half Hard/R250	35	504	± 0.50mm	± 13%
3.1/4" od x 16 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	24	350	± 0.50mm	± 13%
3.1/2" od x 16 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	22	324	± 0.50mm	± 13%
3.5/8" od x 16 swg	3 mtr	BSEN12449	Half Hard/R250	22	313	± 0.50mm	± 13%
3.3/4" od x 16 swg	3 mtr	BSEN12449	Half Hard/R250	21	302	± 0.50mm	± 13%
3.3/4" od x 13 swg	3 mtr	BSEN12449	Half Hard/R250	30	438	± 0.50mm	± 13%
4" od x 16 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	20	283	± 1.0mm	± 13%
4" od x 13 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	28	410	± 1.0mm	± 13%
4" od x 10 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	40	575	± 1.0mm	± 12%
4" od x 1/4" wall	3 & 6 mtr	BSEN12449	Half Hard/R250	80	1160	± 1.0mm	± 11%
4.1/8" od x 16 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	19	274	± 1.0mm	± 13%
4.3/8" od x 13 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	26	374	± 1.0mm	± 13%
4.1/2" od x 13 swg	3 mtr	BSEN12449	Half Hard/R250	25	363	± 1.0mm	± 13%
4.1/2" od x 10 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	35	510	± 1.0mm	± 12%
113 mm od x 1.5 mm wall	3 & 6 mtr	BSEN12449	Half Hard/R250	16	234	± 1.0mm	± 13%
4.3/4" od x 13 swg	3 mtr	BSEN12449	Half Hard/R250	24	344	± 1.0mm	± 13%
4.3/4" od x 10 swg	3 mtr	BSEN12449	Half Hard/R250	33	482	± 1.0mm	± 13%
4.3/4" id x 16 swg	2.87 mtr	BSEN12449	Half Hard/R250	16	231	± 1.0mm	± 13%
5" od x 10 swg	3 mtr	BSEN12449	Half Hard/R250	32	457	± 1.0mm	± 13%
5" od x 13 swg	3 mtr	BSEN12449	Half Hard/R250	22	326	± 1.0mm	± 13%
5.1/4" od x 10 swg	3 mtr	BSEN12449	Half Hard/R250	30	435	± 1.0mm	± 13%
5.1/2" od x 10 swg	3 mtr	BSEN12449	Half Hard/R250	29	415	± 1.0mm	± 13%
6 " od x 10 swg	3 & 6 mtr	BSEN12449	Half Hard/R250	26	379	± 1.0mm	± 13%
189 mm od x 2 mm wall	3 & 6 mtr	BSEN12449	Half Hard/R250	13	186	± 1.0mm	± 13%

C106 SOFT COPPER TUBE IN COIL TO STANDARD BSEN12449

Size	Length	Specification	Temper	Max Working Pressure at 65 C BAR Pressure	PSI	Tolerances on Diameter Dimensions in millimetres	Tolerances On Wall Thickness Tolerance in percentage
1/8" od x 22 swg	10 mtr	BSEN12449	Soft/R220	265	3850	± 0.3mm	± 15%
1/8" od x 22 swg	30 mtr	BSEN12449	Soft/R220	265	3850	± 0.3mm	± 15%
5/32" od x 22 swg	30 mtr	BSEN12449	Soft/R220	201	2912	± 0.3mm	± 15%
4 mm od x 0.6mm wall	10 mtr	BSEN12449	Soft/R220	162	2355	± 0.3mm	± 15%
4 mm od x 0.6mm wall	30 mtr	BSEN12449	Soft/R220	162	2355	± 0.3mm	± 15%
3/16" od x 22 swg	10 mtr	BSEN12449	Soft/R220	161	2341	± 0.3mm	± 15%
3/16" od x 22 swg	30 mtr	BSEN12449	Soft/R220	161	2341	± 0.3mm	± 15%
3/16" od x 20 swg	10 mtr	BSEN12449	Soft/R220	218	3169	± 0.3mm	± 15%
3/16" od x 20 swg	30 mtr	BSEN12449	Soft/R220	218	3169	± 0.3mm	± 15%
5 mm od x 0.8 mm wall	10 mtr	BSEN12449	Soft/R220	175	2542	± 0.3mm	± 15%
6 mm od x 0.8 mm wall	10 mtr	BSEN12449	Soft/R220	142	2053	± 0.3mm	± 15%
6 mm od x 0.8 mm wall	30 mtr	BSEN12449	Soft/R220	142	2053	± 0.3mm	± 15%
6 mm od x 1 mm wall	10 mtr	BSEN12449	Soft/R220	184	2669	± 0.3mm	± 15%
6 mm od x 1 mm wall	30 mtr	BSEN12449	Soft/R220	184	2669	± 0.3mm	± 15%
1/4" od x 22swg	10 mtr	BSEN12449	Soft/R220	116	1682	± 0.5mm	± 15%
1/4" od x 22swg	30 mtr	BSEN12449	Soft/R220	116	1682	± 0.5mm	± 15%
1/4" od x 20 swg	30 mtr	BSEN12449	Soft/R220	155	2244	± 0.5mm	± 15%
1/4" od x 18 swg	30 mtr	BSEN12449	Soft/R220	219	3170	± 0.5mm	± 15%
1/4" od x 16 swg	10 mtr	BSEN12449	Soft/R220	317	4593	± 0.5mm	± 15%
1/4" od x 16 swg	30 mtr	BSEN12449	Soft/R220	317	4593	± 0.5mm	± 15%
5/16" od x 22 swg	10 mtr	BSEN12449	Soft/R220	91	1313	± 0.5mm	± 15%
5/16" od x 22 swg	30 mtr	BSEN12449	Soft/R220	91	1313	± 0.5mm	± 15%
5/16" od x 20 swg	10 mtr	BSEN12449	Soft/R220	120	1734	± 0.5mm	± 15%
5/16" od x 20 swg	30 mtr	BSEN12449	Soft/R220	120	1734	± 0.5mm	± 15%
5/16" od x 18 swg	10 mtr	BSEN12449	Soft/R220	167	2421	± 0.5mm	± 15%
5/16" od x 18 swg	30 mtr	BSEN12449	Soft/R220	167	2421	± 0.5mm	± 15%
5/16" od x 16 swg	10 mtr	BSEN12449	Soft/R220	237	3437	± 0.5mm	± 15%
5/16" od x 16 swg	30 mtr	BSEN12449	Soft/R220	237	3437	± 0.5mm	± 15%
8 mm od x 0.8 mm wall	10 mtr	BSEN12449	Soft/R220	102	1483	± 0.5mm	± 15%
8 mm od x 0.8 mm wall	30 mtr	BSEN12449	Soft/R220	102	1483	± 0.5mm	± 15%
8 mm od x 1mm wall	10 mtr	BSEN12449	Soft/R220	131	1906	± 0.5mm	± 15%
3/8" od x 22 swg	10 mtr	BSEN12449	Soft/R220	74	1076	± 0.5mm	± 15%
3/8" od x 22 swg	30 mtr	BSEN12449	Soft/R220	74	1076	± 0.5mm	± 15%
3/8" od x 20 swg	10 mtr	BSEN12449	Soft/R220	98	1416	± 0.5mm	± 15%
3/8" od x 20 swg	30 mtr	BSEN12449	Soft/R220	98	1416	± 0.5mm	± 15%
3/8" od x 18 swg	30 mtr	BSEN12449	Soft/R220	135	1958	± 0.5mm	± 15%
3/8" od x 16 swg	30 mtr	BSEN12449	Soft/R220	189	2747	± 0.5mm	± 15%
10 mm od x 0.8 mm wall	10 mtr	BSEN12449	Soft/R220	80	1160	± 0.5mm	± 15%
10 mm od x 0.8 mm wall	30 mtr	BSEN12449	Soft/R220	80	1160	± 0.5mm	± 15%
10 mm od x 1 mm wall	10 mtr	BSEN12449	Soft/R220	102	1483	± 0.5mm	± 15%
10 mm od x 1 mm wall	30 mtr	BSEN12449	Soft/R220	102	1483	± 0.5mm	± 15%
12 mm od x 0.8 mm wall	10 mtr	BSEN12449	Soft/R220	66	953	± 0.7mm	± 15%

Size	Length	Specification	Temper	Max Working Pressure at 65 C BAR Pressure	PSI	Tolerances on Diameter Dimensions in millimetres	Tolerances On Wall Thickness Tolerance in percentage
12 mm od x 0.8 mm wall	30 mtr	BSEN12449	Soft/R220	66	953	± 0.7mm	± 15%
12 mm od x 1 mm wall	10 mtr	BSEN12449	Soft/R220	84	1213	± 0.7mm	± 15%
1/2" od x 21 swg	30 mtr	BSEN12449	Soft/R220	63	913	± 0.7mm	± 15%
1/2" od x 20 swg	10 mtr	BSEN12449	Soft/R220	71	1035	± 0.7mm	± 15%
1/2" od x 18 swg	30 mtr	BSEN12449	Soft/R220	98	1417	± 0.7mm	± 15%
1/2" od x 16 swg	10 mtr	BSEN12449	Soft/R220	135	1959	± 0.7mm	± 15%



SECTION 2

- AIR CONDITIONING & REFRIGERATION TUBE
- C106 SOFT/HALF HARD/ HARD
- R220/R250/R290
STRAIGHT LENGTHS & COIL
- SPECIFICATION: EN12735-1

Air Conditioning and Refrigeration Tube: The use of copper tubes for the transportation of liquids in condensers and evaporators, the main parts of Air Conditioning and Refrigeration systems, is indispensable. We supply a range of coils and straight lengths suitable for high quality air conditioning and refrigeration systems, all to EN 12735-1 Standard.

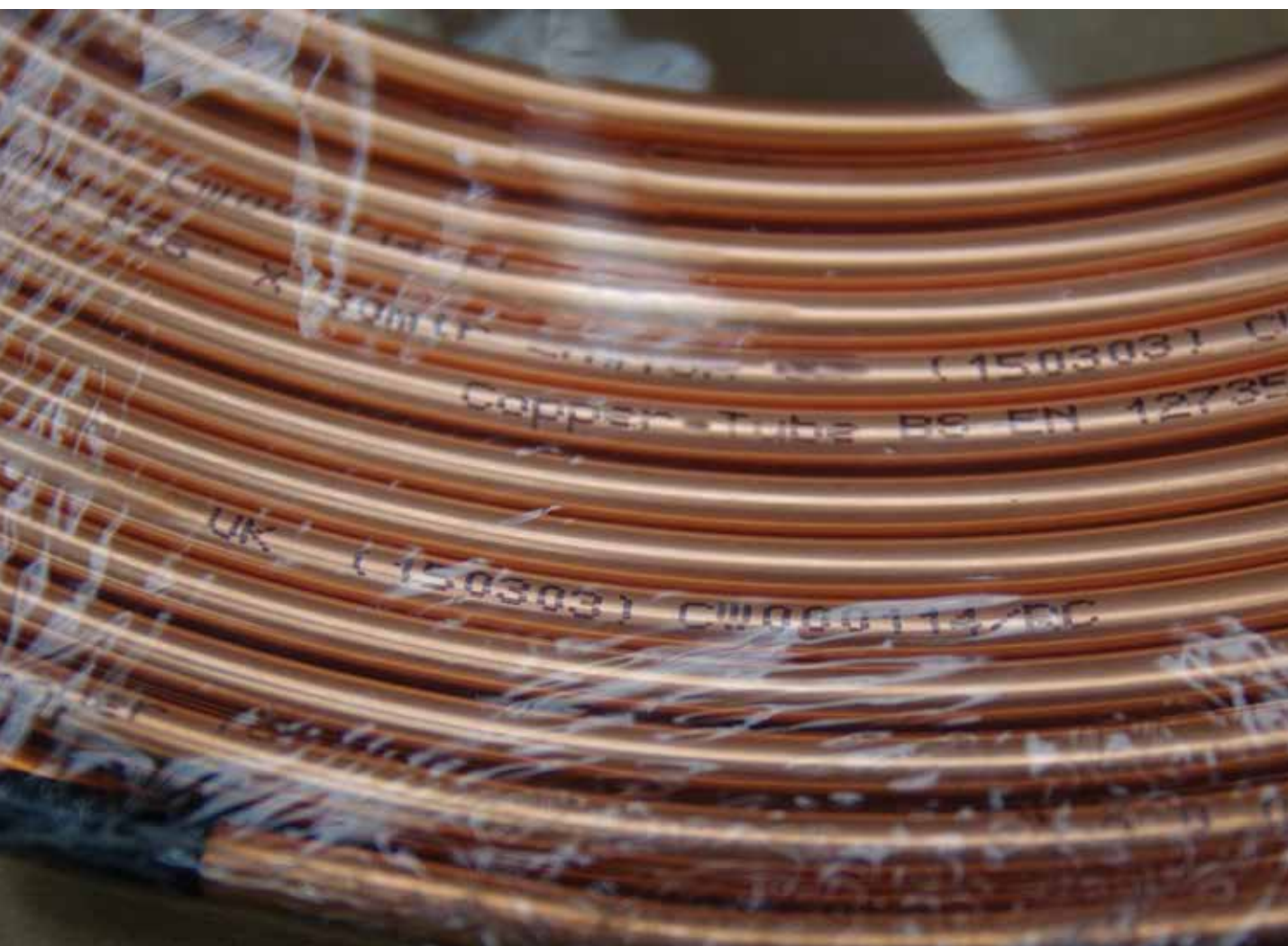


C106 HALF HARD/HARD IN STRAIGHT LENGTHS TO ACR STANDARD EN12735-1

Size	Length	Specification	Temper	Max Working Pressure at 65 C BAR Pressure	PSI	Tolerances on Diameter Dimiensions in millimetres	Tolerances On Wall Thickness Tolerance in percentage
3/8" OD x 21 swg	3 & 6 mtr	EN12735-1	Half Hard/R250	103	1493	± 0.09mm	± 10%
3/8" od x 18 swg	3 & 6 mtr	EN12735-1	Half Hard/R250	176	2554	± 0.09mm	± 13%
1/2" od x 20 swg	3 & 6 mtr	EN12735-1	Half Hard/R250	93	1350	± 0.09mm	± 10%
1/2"od x 18 swg	3 & 6 mtr	EN12735-1	Half Hard/R250	127	1848	± 0.09mm	± 13%
5/8" od x 20 swg	3 & 6 mtr	EN12735-1	Half Hard/R250	73	1063	± 0.09mm	± 10%
5/8" od x 18 swg	3 & 6 mtr	EN12735-1	Half Hard/R250	99	1448	± 0.09mm	± 13%
3/4" od x 19 swg	3 & 6 mtr	EN12735-1	Half Hard/R250	68	981	± 0.10mm	± 15%
3/4" od x 18 swg	3 & 6 mtr	EN12735-1	Half Hard/R250	82	1190	± 0.10mm	± 15%
7/8" od x 18 swg	3 & 6 mtr	EN12735-1	Half Hard/R250	70	1010	± 0.10mm	± 15%
7/8" od x 16 swg	3 & 6 mtr	EN12735-1	Half Hard/R250	95	1374	± 0.10mm	± 15%
11/8" od x 18 swg	3 & 6 mtr	EN12735-1	Half Hard/R250	53	776	± 0.11mm	± 15%
11/8" od x 16 swg	3 & 6 mtr	EN12735-1	Half Hard/R250	72	1050	± 0.11mm	± 15%
1.1/8" od x 14 swg	3 & 6 mtr	EN12735-1	Half Hard/R250	53	776	± 0.11mm	± 15%
1.3/8" od x 18 swg	3 & 6 mtr	EN12735-1	Half Hard/R250	43	629	± 0.11mm	± 15%
1.3/8" od x 16 swg	3 & 6 mtr	EN12735-1	Half Hard/R250	59	850	± 0.11mm	± 15%
1.3/8" od x 14 swg	3 & 6 mtr	EN12735-1	Half Hard/R250	74	1075	± 0.11mm	± 15%
1.3/8" od x 12 swg	3 & 6 mtr	EN12735-1	Half Hard/R250	98	1424	± 0.11mm	± 15%
1.5/8" od x 18 swg	3 & 6 mtr	EN12735-1	Half Hard/R250	37	530	± 0.11mm	± 15%
1.5/8" od x 16 swg	3 & 6 mtr	EN12735-1	Half Hard/R250	49	714	± 0.11mm	± 15%
1.5/8" od x 14 swg	3 & 6 mtr	EN12735-1	Half Hard/R250	62	901	± 0.11mm	± 15%
1.5/8" od x 12 swg	3 & 6 mtr	EN12735-1	Half Hard/R250	82	1190	± 0.11mm	± 15%
1.5/8" od x 11 swg	3 & 6 mtr	EN12735-1	Half Hard/R250	92	1338	± 0.11mm	± 15%
2.1/8" od x 18 swg	3 & 6 mtr	EN12735-1	Half Hard/R250	28	402	± 0.11mm	± 15%
2.1/8" od x 16 swg	3 & 6 mtr	EN12735-1	Half Hard/R250	37	541	± 0.11mm	± 15%
2.1/8" od x 14 swg	3 & 6 mtr	EN12735-1	Half Hard/R250	47	681	± 0.11mm	± 15%
2.1/8" od x 12 swg	3 & 6 mtr	EN12735-1	Half Hard/R250	62	896	± 0.11mm	± 15%
2.5/8" od x 18 swg	3 & 6 mtr	EN12735-1	Hard/R290	22	324	± 0.10mm	± 15%
2.5/8" od x 16 swg	3 & 6 mtr	EN12735-1	Hard/R290	30	435	± 0.10mm	± 15%
2.5/8" od x 14 swg	3 & 6 mtr	EN12735-1	Hard/R290	38	547	± 0.10mm	± 15%
2.5/8" od x 12 swg	3 & 6 mtr	EN12735-1	Hard/R290	50	718	± 0.10mm	± 15%
3.1/8" od x 16 swg	3 & 6 mtr	EN12735-1	Hard/R290	25	364	± 0.15mm	± 15%
3.1/8" od x 14 swg	3 & 6 mtr	EN12735-1	Hard/R290	32	457	± 0.15mm	± 15%
3.1/8" od x 12 swg	3 & 6 mtr	EN12735-1	Hard/R290	41	599	± 0.15mm	± 15%
3.5/8" od x 16 swg	3 & 6 mtr	EN12735-1	Hard/R290	22	313	± 0.20mm	± 15%
3.5/8" od x 14 swg	3 & 6 mtr	EN12735-1	Hard/R290	27	393	± 0.20mm	± 15%
4.1/8" od x 16 swg	3 & 6 mtr	EN12735-1	Hard/R290	19	274	± 0.20mm	± 15%
4.1/8" od x 14 swg	3 & 6 mtr	EN12735-1	Hard/R290	24	344	± 0.20mm	± 15%
4.1/8" od x 12 swg	3 & 6 mtr	EN12735-1	Hard/R290	31	450	± 0.20mm	± 15%

C106 SOFT COPPER TUBE IN COIL TO ACR STANDARD EN12735-1

Size	Length	Specification	Temper	Max Working Pressure at 65 C BAR Pressure	PSI	Tolerances on Diameter Dimensions in millimetres	Tolerances On Wall Thickness Tolerance in percentage
1/4" od x 22 swg	6, 15,30 mtr	EN12735-1	Soft/R220	116	1682	± 0.04mm	± 10 %
5/16" od x 22 swg	30 mtr	EN12735-1	Soft/R220	91	1313	± 0.04mm	± 10 %
5/16" od x 20 swg	30 mtr	EN12735-1	Soft/R220	120	1734	± 0.04mm	± 10 %
3/8" od x 21 swg	6,15,30 mtr	EN12735-1	Soft/R220	86	1245	± 0.04mm	± 10 %
1/2" od x 21swg	6,15,30 mtr	EN12735-1	Soft/R220	63	913	± 0.04mm	± 10 %
5/8" od x 20 swg	6,15,30 mtr	EN12735-1	Soft/R220	56	815	± 0.04mm	± 10 %
3/4" od x 19 swg	15 & 30 mtr	EN12735-1	Soft/R220	52	752	± 0.05mm	± 15 %
7/8" od x 19 swg	15 mtr	EN12735-1	Soft/R220	44	639	± 0.05mm	± 15 %



SECTION 3- Customer Case Study

Paying close attention to customer needs is something which we pride ourselves on at P & P. Whether you need certain sizes and specifications, special deliveries or even specific packaging! We do our utmost to ensure you receive the service you need to run your business efficiently.

A large proportion of customers we have on board at P & P take full advantage of the services we have to offer.

Over the past 18 months we have developed an extremely close business relationship with a customer within the heat exchanger industry. Through making the most of the services we provide, it has enhanced their production and enabled them to take their business to the next level.

The below shows an overview of the services we provide them with, and how it benefits the running of their day to day business.

Given the nature of your business I am sure this is something you can relate to!

- Soft copper tube in coil is something that they require on a next day basis; therefore we have ensured that if ordered before 2pm, we can deliver next day to their premises.
- We also cut their copper tubes to the exact length they need, one particular size is in constant demand and is required in 1.2 metre lengths. We have set up an agreement where we have cut extra tubes to keep on the shelf for them just in case they ever have an urgent requirement.
- As well as squares & rectangles, we also cut discs to extremely tight tolerances on their naval brass plate requirements; this has reduced their waste dramatically over the past 12 months.
- The customer has set prices for certain periods of time. As I am sure you are aware, metal prices fluctuate daily. However by buying in extra stocks for our customer at the right time, it has allowed them to save money once metal prices increase and at the same time understand their exact material costs for certain jobs.
- Room for stock is very limited at our customers premises, especially as a great deal of material that they use comes in 6-7 metre lengths. Therefore we have set up an agreement which enables them to call in material as and when they need it. This gives them both control over their material and confidence in manufacturing time when producing their end product.
- We make sure we visit our customers at least twice a year to make sure that they are happy with the service we are providing. When doing this we also discuss their upcoming material requirements.



Understanding our customers business is fundamental when it comes to providing the best possible service, by seeing what goes into the day to day running of the companies we supply helps us meet the specific requirements that each individual customer has.



SECTION 4

- PLUMBING TUBES
- C106 SOFT/ HALF HARD/ HARD
R220/ R250/ R290
- STRAIGHT LENGTHS AND COIL
- SPECIFICATION BSEN1057

Plumbing Tubes: We supply up to 40 different sizes of plumbing tube suitable for Water/Gas/Sanitation. As well as an extensive range of straight lengths we also offer coils in both plain and PVC coated at extremely competitive prices.



C106 HALF HARD/HARD IN STRAIGHT LENGTHS TO STANDARD BSEN1057

Size	Length	Specification	Temper	Max Working Pressure at 65 C BAR Pressure	PSI	Tolerances on Diameter Dimiensions in millimetres	Tolerances On Wall Thickness Tolerance in percentage
Plumbing Tube Table X (straight lengths)							
6mm od x 0.6 mm wall	3 & 6 mtr	BSEN1057	Half Hard/R250	133	1934	± 0.09mm	± 10%
8mm od x 0.6 mm wall	3 & 6 mtr	BSEN1057	Half Hard/R250	97	1411	± 0.09mm	± 10%
10 mm od table x (0.6 mm wall)	3 & 6 mtr	BSEN1057	Half Hard/R250	77	1111	± 0.09mm	± 10%
15mm od x 0.7mm wall	3 & 6 mtr	BSEN1057	Half Hard/R250	58	852	± 0.09mm	± 10%
22mm od x 0.9mm wall	3 & 6 mtr	BSEN1057	Half Hard/R250	51	742	± 0.10mm	± 15%
28 mm od x 0.9 mm wall	3 & 6 mtr	BSEN1057	Half Hard/R250	40	578	± 0.10mm	± 15%
35 mm od table x (1.2 mm wall)	3 & 6 mtr	BSEN1057	Half Hard/R250	43	618	± 0.11mm	± 10%
42 mm od table x (1.2 mm wall)	3 & 6 mtr	BSEN1057	Half Hard/R250	35	512	± 0.11mm	± 10%
54 mm od table x (1.2 mm wall)	3 & 6 mtr	BSEN1057	Half Hard/R250	27	396	± 0.11mm	± 10%
67 mm od x 1.2 mm wall	3 & 6 mtr	BSEN1057	Hard/R290	22	317	± 0.10mm	± 13%
76 mm od x 1.5 mm wall	3 & 6 mtr	BSEN1057	Hard/R290	24	350	± 0.15mm	± 15%
108mm od x 1.5 mm wall	3 & 6 mtr	BSEN1057	Hard/R290	17	245	± 0.7mm	± 15%
133 mm od x 1.5 mm wall	3 & 6 mtr	BSEN1057	Hard/R290	14	199	± 0.7mm	± 15%
159mm od x 2 mm wall	3 & 6 mtr	BSEN1057	Hard/R290	15	222	± 0.7mm	± 15%
219mm od x 3mm wall	3 & 6 mtr	BSEN1057	Hard/R290	17	242	± 1.5mm	± 15%
Plumbing Tube Table Y (straight lengths)							
6 mm od table Y x (0.8 mm wall)	3 & 6 mtr	BSEN1057	Half Hard/R250	185	2678	± 0.09mm	± 10%
8 mm od table Y x (0.8 mm wall)	3 & 6 mtr	BSEN1057	Half Hard/R250	133	1934	± 0.09mm	± 10%
10 mm od table y x (0.8 mm wall)	3 & 6 mtr	BSEN1057	Half Hard/R250	104	1513	± 0.09mm	± 10%
15mm od x 1mm wall	3 & 6 mtr	BSEN1057	Half Hard/R250	85	1243	± 0.09mm	± 10%
22 mm od x 1.2 mm wall	3 & 6 mtr	BSEN1057	Half Hard/R250	69	1004	± 0.10mm	± 15%
28 mm od x 1.2 mm wall	3 & 6 mtr	BSEN1057	Half Hard/R250	54	779	± 0.10mm	± 15%
35 mm od x 1.5 mm wall	3 & 6 mtr	BSEN1057	Half Hard/R250	54	779	± 0.11mm	± 15%
42 mm od table Y x (2 mm wall)	3 & 6 mtr	BSEN1057	Half Hard/R250	60	870	± 0.11mm	± 15%
54 mm od x 2 mm wall	3 & 6 mtr	BSEN1057	Half Hard/R250	46	669	± 0.11mm	± 15%
67 mm od x 2 mm wall	3 & 6 mtr	BSEN1057	Hard/R290	37	536	± 0.15mm	± 15%
76 mm od x 2 mm wall	3 & 6 mtr	BSEN1057	Hard/R290	32	470	± 0.15mm	± 15%
108 mm od table Y x (2.5 mm wall)	3 & 6 mtr	BSEN1057	Hard/R290	28	412	± 0.7mm	± 15%



C106 SOFT COPPER TUBE IN COIL TO STANDARD BSEN1057

Size	Length	Specification	Temper	Max Working Pressure at 65 C BAR Pressure	PSI	Tolerances on Diameter Dimiensions in millimetres	Tolerances On Wall Thickness Tolerance in percentage
Plumbing Tube, plain coils							
6mm od x 0.6 mm wall	25 mtr	BSEN1057	Soft/R220	102	1483	± 0.04mm	± 15%
8 mm od x 0.6 mm wall	10,25,50 mtr	BSEN1057	Soft/R220	75	1082	± 0.04mm	± 15%
10 mm od x 0.7 mm wall	10,25,50 mtr	BSEN1057	Soft/R220	69	1004	± 0.04mm	± 15%
15 mm od x 1 mm wall	25 mtr	BSEN1057	Soft/R220	66	953	± 0.04mm	± 15%
22 mm od x 1.2 mm wall	25 mtr	BSEN1057	Soft/R220	53	770	± 0.05mm	± 15%
Plumbing Tube PVC covered (White)							
8 mm od x 0.6 mm wall	25 mtr	BSEN1057	Soft/R220	75	1082	± 0.04mm	± 15%
10 mm od x 0.7 mm wall	25,50 mtr	BSEN1057	Soft/R220	69	1004	± 0.04mm	± 15%
Plumbing Tube PVC covered(Yellow)							
15 mm od x 1 mm wall	25 mtr	BSEN1057	Soft/R220	66	953	± 0.04mm	± 15%
22 mm od x 1.2 mm wall	25 mtr	BSEN1057	Soft/R220	53	770	± 0.05mm	± 15%
28 mm od x 1.2 mm wall	20 mtr	BSEN1057	Soft/R220	41	597	± 0.05mm	± 15%
Plumbing Tube PVC covered (Blue)							
15 mm od x 1 mm wall	25 mtr	BSEN1057	Soft/R220	66	953	± 0.04mm	± 15%
22 mm od x 1.2 mm wall	25 mtr	BSEN1057	Soft/R220	53	770	± 0.05mm	± 15%
28 mm od x 1.2 mm wall	20 mtr	BSEN1057	Soft/R220	41	597	± 0.05mm	± 15%



SECTION 5

- BLACK PVC COATED COPPER TUBE IN COIL
- C106 SOFT
- R220
- SPECIFICATION: BSEN12449

All Black PVC Coated Coil: We supply Black PVC Coated Copper tube in coil. This is used when extreme atmospheric conditions reduce the life span of the tube. The PVC coating acts as a layer of protection making the tube last longer. It is also used for colour coding on specific jobs, which identifies certain tubes for health and safety purposes.



C106 BLACK PVC COATED SOFT COPPER TUBE IN COIL TO STANDARD BSEN12449

Size	Length	Specification	Temper	Max Working Pressure at 65 C BAR Pressure	PSI	Tolerances on Diameter Dimiensions in millimetres	Tolerances On Wall Thickness Tolerance in percentage
6mm do x 1mm wall	30 mtr	BSEN12449	Soft/R220	184	2669	± 0.3mm	± 15%
1/4" od x 22 swg	30 mtr	BSEN12449	Soft/R220	116	1682	± 0.3mm	± 15%
8 mm od x 1mm wall	30 mtr	BSEN12449	Soft/R220	131	1906	± 0.5mm	± 15%
3/8" od x 22 swg	30 mtr	BSEN12449	Soft/R220	74	1076	± 0.5mm	± 15%
3/8" od x 20 swg	30 mtr	BSEN12449	Soft/R220	98	1416	± 0.5mm	± 15%
10 mm od x 1mm wall	30 mtr	BSEN12449	Soft/R220	102	1483	± 0.5mm	± 15%



SECTION 6

- INTEGRON TUBE
- R220/R250
- SPECIFICATIONS:
- EN12452/EN10204.3.1

Integron tube: We stock & sell thousands of metres of integrally finned copper tube every year. We keep this in 2 sizes which are sold to customers throughout the heat exchanger industry. The fins create an extended outer surface to the tube, increasing the surface area and heat transfer capability.



INTEGRALLY FINNED COPPER TUBE HIGH FIN & LOW FIN SUPPLIED IN 6 & 7 METRE RANDOM LENGTHS

Product	22mm OD X 7 Metre finned	3/4" OD X 16 SWG X 7 Metres low finned
Size	22mm OD	3/4 " OD
Length	7 Metres	7 Metres
Specification	EN 12452	EN10204.3.1
Temper	R220	R250
Wall thickness finned section	0.8mm	16 SWG - "1.626mm"
Fin height	3.5mm	1.5mm
Tolerances On Wall Thickness	" +/- 10%"	" +/- 10%"

Mechanical Properties		
Yield strength Rp0.2 (N/mm ²)	min. 40	min.40
Tensile strength Rm (N/mm ²)	min. 220	min. 220
Elongation A5	min. 40	min. 40

Physical Properties		
Density (kg/dm ³)	8.94	8.94
Melting range (°C)	1083	
Thermal conductivity at 20 °C (W/(mK))	310	310
Chemical composition acc. to EN (%)	Cu 99.9 P 0.020 oxygen-free	



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