

Medical & Gas Copper Tube  
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正直、诚信、务实

## THE COMPANY

Yingtian Winland Metallurgy Co., Ltd.(hereinafter called Winland Metal) is a Chinese company based in Yingtian city, which well known as one of China's important copper production bases.

We dedicate ourselves to offering high quality copper tubing and fittings products. Winland Metal entered the overseas market in 2017, our products has been suppling to countries like Vietnam, Malaysia, Singapore, Spain, Israel, India, Maldives and so on.

Seamless copper tubes for medical & gas piping systems has strict requirements. Winland Metal's tubes of this type comply with international standards like GBT,ASTM, BE EN, JIS.

Our brands COPPERAGE & KOMBING aim to serve customers in different markets.



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# ASTM B819

## Standard Specification for Seamless Copper Tube for Medical Gas Systems

Packing: Bundle in wooden case    End cap: Yes    Length: 5.8meters or as request    MOQ:500 Kg per size    Customize: Yes

Temper	Form	Tensile Strength		Cleanliness	Marking	
H58	Straight Length	36 ksi min	250 Mpa	≤0.038g/m <sup>2</sup>	Ink	Trademark/origin/MED/Type

### Size Chart

Nominal	O.D.		O.D. Tolerances		Type K				Type L				Temper	Form
					Wall Thickness		W.T. Tolerances		Wall Thickness		W.T. Tolerances			
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm		
1/4	0.375	9.5	0.001	0.025	0.035	0.889			0.030	0.762	0.003	0.076	H58	Straight
3/8	0.500	12.7	0.001	0.025	0.049	1.24	0.005	0.13	0.035	0.889	0.004	0.1	H58	Straight
1/2	0.625	15.9	0.001	0.025	0.049	1.24	0.005	0.13	0.040	1.02	0.004	0.1	H58	Straight
5/8	0.750	19.1	0.001	0.025	0.049	1.24	0.005	0.13	0.042	1.07	0.004	0.1	H58	Straight
3/4	0.875	22.3	0.001	0.025	0.065	1.65	0.006	0.15	0.045	1.14	0.004	0.1	H58	Straight
1	1.125	28.6	0.0015	0.038	0.065	1.65	0.006	0.15	0.050	1.27	0.005	0.13	H58	Straight
1-1/4	1.375	34.9	0.0015	0.038	0.065	1.65	0.006	0.15	0.055	1.4	0.006	0.15	H58	Straight
1-1/2	1.625	41.3	0.002	0.051	0.072	1.83	0.007	0.18	0.060	1.52	0.006	0.15	H58	Straight
2	2.125	54.0	0.002	0.051	0.083	2.11	0.008	0.2	0.070	1.78	0.007	0.18	H58	Straight
2-1/2	2.625	66.7	0.002	0.051	0.095	2.41	0.01	0.25	0.080	2.03	0.008	0.2	H58	Straight
3	3.125	79.4	0.002	0.051	0.109	2.77	0.011	0.28	0.090	2.29	0.009	0.23	H58	Straight
3-1/2	3.625	92.1	0.002	0.051	0.12	3.05	0.012	0.3	0.100	2.54	0.01	0.25	H58	Straight
4	4.125	105.0	0.002	0.051	0.134	3.4	0.013	0.33	0.110	2.79	0.011	0.28	H58	Straight
5	5.125	130.0	0.002	0.051	0.16	4.06	0.016	0.41	0.125	3.18	0.012	0.3	H58	Straight
6	6.125	156.0	0.002	0.051	0.192	4.88	0.019	0.48	0.140	3.56	0.014	0.36	H58	Straight
8	8.125	206.0	+0.002	0.051	0.271	6.88	0.027	0.69	0.200	5.08	0.02	0.51	H58	Straight
8	8.125	206.0	-0.006	0.150	0.271	6.88	0.027	0.69	0.200	5.08	0.02	0.51	H58	Straight

# BS EN 13348

## Seamless, round copper tubes for medical gases or vacuum

Outside Diameter	End Cap	Length	Customize	MOQ	Cleanliness	Marking	Packing
10-54mm	Yes	As request	Yes	500Kg/size	0.20mg/dm <sup>2</sup>	Ink as request	Bundle in wooden case
64-133mm	Yes	As request	Yes	500Kg/size	1.0mg/dm <sup>2</sup>	Ink as request	Bundle in wooden case

### Level Wound Coil (LWC)

O.D.	W.T.	Temper
6mm	1.0mm	R220
8mm	0.8mm	R220
8mm	1.0mm	R220
10mm	0.8mm	R220
10mm	1.0mm	R220
12mm	0.8mm	R220
12mm	1.0mm	R220
14mm	1.0mm	R220
15mm	0.7mm	R220
15mm	1.0mm	R220
15mm	1.2mm	R220
16mm	1.0mm	R220
18mm	1.02mm	R220
22mm	0.9mm	R220
22mm	1.0mm	R220
22mm	1.2mm	R220
22mm	1.5mm	R220

### Copper Pancake Coil

O.D.	W.T.	Temper
6mm	1.0mm	R220
8mm	0.8mm	R220
8mm	1.0mm	R220
10mm	0.8mm	R220
10mm	1.0mm	R220
12mm	0.8mm	R220
12mm	1.0mm	R220
14mm	1.0mm	R220
15mm	0.7mm	R220
15mm	1.0mm	R220
15mm	1.2mm	R220
16mm	1.0mm	R220
18mm	1.02mm	R220
22mm	0.9mm	R220
22mm	1.0mm	R220
22mm	1.2mm	R220
22mm	1.5mm	R220

### Straight Copper Tube

O.D.	W.T.	Temper
6mm	1.0mm	R290
8mm	0.8mm	R290
8mm	1.0mm	R290
10mm	0.8mm	R290
10mm	1.0mm	R290
12mm	0.8mm	R290
12mm	1.0mm	R290
14mm	1.0mm	R290
15mm	0.7mm	R290
15mm	1.0mm	R290
15mm	1.2mm	R290
16mm	1.0mm	R290
18mm	1.02mm	R290
22mm	0.9mm	R290
22mm	1.0mm	R290
22mm	1.2mm	R290
22mm	1.5mm	R290

O.D.	W.T.	Temper
28mm	0.9mm	R290
28mm	1.0mm	R290
28mm	1.2mm	R290
28mm	1.5mm	R290
35mm	1.0mm	R290
35mm	1.2mm	R290
35mm	1.5mm	R290
35mm	2.0mm	R290
42mm	1.0mm	R290
42mm	1.2mm	R290
42mm	1.5mm	R290
42mm	2.0mm	R290
54mm	1.0mm	R290
54mm	1.2mm	R290
54mm	1.5mm	R290
54mm	2.0mm	R290
64mm	2.0mm	R290

O.D.	W.T.	Temper
66.7mm	1.2mm	R290
66.7mm	2.0mm	R290
70mm	2.0mm	R290
76.1mm	1.5mm	R290
76.1mm	2.0mm	R290
80mm	2.0mm	R290
88.9mm	2.0mm	R290
104mm	2.0mm	R290
108mm	1.5mm	R290
108mm	2.5mm	R290
133mm	3.0mm	R290



## YS/T 650-2007

Seamless copper tubes for medical gases and vacuum

Designation	Status	Type	Outside Diameter	Wall Thickness	Length
TU1,TP2	Hard(Y)	Straight	6-159mm	0.7-4.0mm	1000-6100mm
	Half Hard(Y2)	Straight	6-159mm	0.7-4.0mm	1000-6100mm
	Soft(M)	Straight	6-159mm	0.7-4.0mm	1000-6100mm
	Soft(M)	Coil	≤28mm	0.7-4.0mm	≥15000mm

dn	O.D.	Wall Thickness		Theoretical Weight	
		Type A	Type B	Type A	Type B
4	6mm	1.0mm	0.8mm	0.14kg/m	0.117kg/m
6	8mm	1.0mm	0.8mm	0.197kg/m	0.162kg/m
8	10mm	1.0mm	0.8mm	0.253kg/m	0.207kg/m
10	12mm	1.2mm	0.8mm	0.364kg/m	0.252kg/m
15	15mm	1.2mm	1.0mm	0.465kg/m	0.393kg/m
-	18mm	1.2mm	1.0mm	0.566kg/m	0.477kg/m
20	22mm	1.5mm	1.2mm	0.864kg/m	0.701kg/m
25	28mm	1.5mm	1.2mm	1.116kg/m	0.903kg/m
32	35mm	2.0mm	1.5mm	1.854kg/m	1.411kg/m
40	42mm	2.0mm	1.5mm	2.247kg/m	1.706kg/m
50	54mm	2.5mm	2.0mm	3.616kg/m	2.921kg/m
65	67mm	2.5mm	2.0mm	4.529kg/m	3.652kg/m
-	76mm	2.5mm	2.0mm	5.161kg/m	4.157kg/m
80	89mm	2.5mm	2.0mm	6.074kg/m	4.887kg/m
100	108mm	3.5mm	2.5mm	10.274kg/m	7.408kg/m
125	133mm	3.5mm	2.5mm	12.731kg/m	9.164kg/m
150	159mm	4.0mm	3.5mm	17.415kg/m	15.287kg/m

## ASTM B837

Seamless Copper Tube for Natural Gas & Liquefied Petroleum (LP) Gas Fuel Distribution Systems

Nominal	Actual	Actual(Metric)	O.D.	O.D.(Metric)	Tolerance	Product Form
3/8	0.375"	9.52mm	0.030"	0.762mm	0.0030"	Copper Pancake Coil
1/2	0.500"	12.70mm	0.035"	0.889mm	0.0040"	Copper Pancake Coil
5/8	0.625"	15.88mm	0.040"	1.016mm	0.0040"	Copper Pancake Coil
3/4	0.750"	19.05mm	0.042"	1.067mm	0.0040"	Copper Pancake Coil
7/8	0.875"	22.23mm	0.045"	1.143mm	0.0040"	Copper Pancake Coil
3/8	0.375"	9.52mm	0.030"	0.762mm	0.0030"	Straight Copper Tube
1/2	0.500"	12.70mm	0.035"	0.889mm	0.0040"	Straight Copper Tube
5/8	0.625"	15.88mm	0.040"	1.016mm	0.0040"	Straight Copper Tube
3/4	0.750"	19.05mm	0.042"	1.067mm	0.0040"	Straight Copper Tube
7/8	0.875"	22.23mm	0.045"	1.143mm	0.0040"	Straight Copper Tube
1-1/8	1.125"	28.58mm	0.050"	1.270mm	0.0050"	Straight Copper Tube

