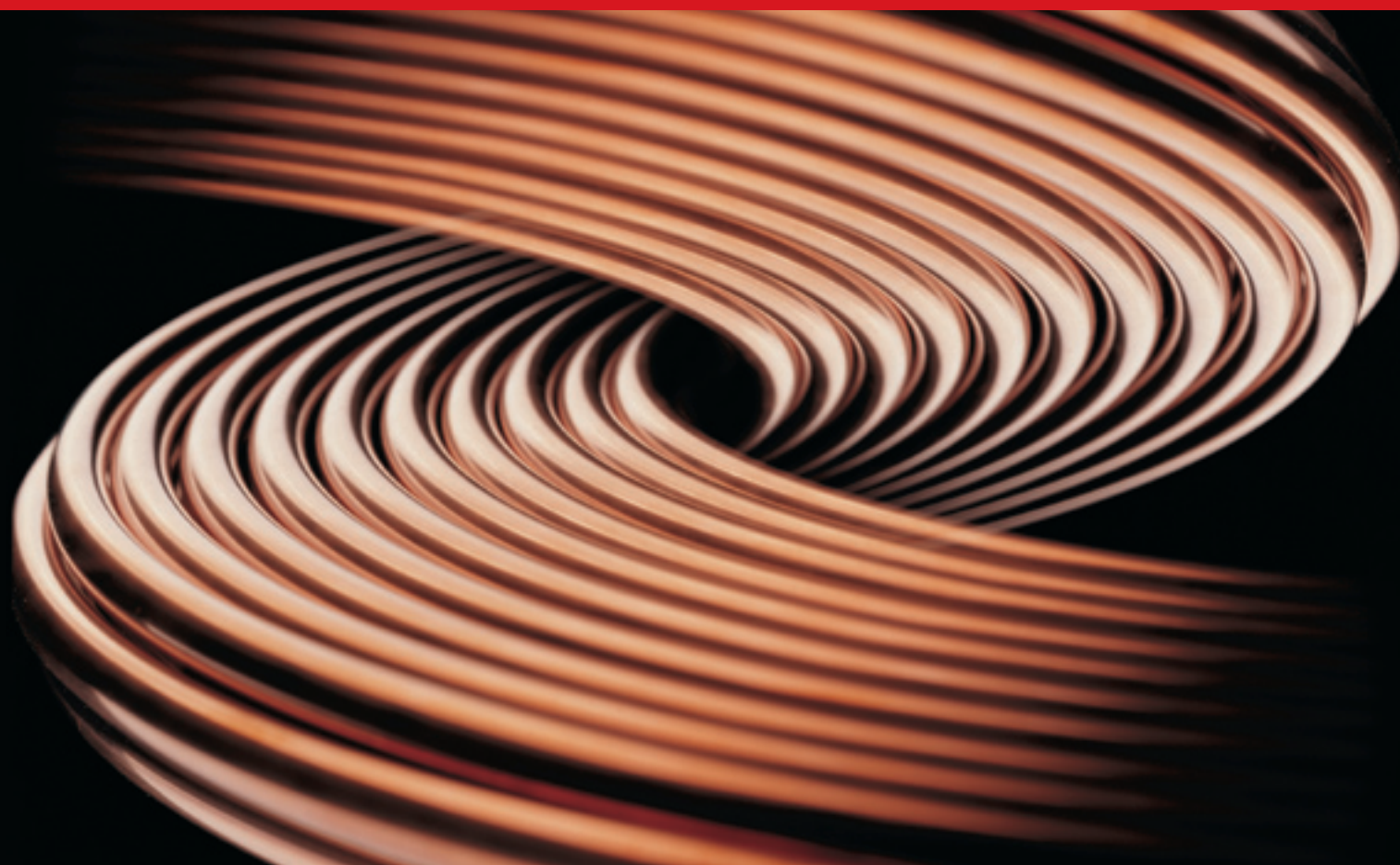


INDUSTRIAL TUBES

TECTUBE[®]_cips, TECTUBE[®]_med



BECAUSE OF THE COPPER'S NATURAL PROPERTIES, TUBES MADE FROM HIGHLY PURE COPPER, CU – DHP ARE ESPECIALLY SUITABLE FOR TRANSPORTING GASES, REFRIGERANTS AND FOR THE MANUFACTURE OF VACUUM INSTALLATIONS. THEY ARE ABSOLUTELY GAS-TIGHT, CAN BE USED AT HIGH PRESSURE, ARE VERY EASY TO PROCESS AND ARE RESISTANT TO CORROSION. CUSTOMISED PRODUCTION TECHNOLOGY AND PARTICULAR CLEANING METHODS GUARANTEE EXTREMELY CLEAN INSIDE SURFACES IN THE TUBES.

TECTUBE®_cips, TECTUBE®_med



TECTUBE®_cips

TECTUBE®_cips is the KME brand for tube designed especially for the installation of ACR components and for transporting industrial and laboratory gases. It is a preferred product for piping, construction and flow control tubes. This tube features a smooth, clean and dry inside surface. It surpasses the corresponding requirements of EN 12735-1 (seamless copper tubes for ACR technology; tubes for piping systems) and ASTM B 280.

These two international specifications for seamless copper connection tubes for ACR technology require that the maximum permissible contamination on the inside surface of the tube (measured as carbon) may not exceed a level of 38 mg/m².

To ensure inner cleanliness until the moment tubes are installed, each tube is firmly sealed at both ends.

To guarantee traceability as demanded in the EU Pressure Equipment Directive PED 97/23/EC, the exact date on which the tube was manufactured, the dimensions of the tube and other information are engraved permanently on each tube.

The tube can be supplied as coils, pancake coils and straight lengths.

SPECIAL OPTION

TECTUBE®_cips in coils can be supplied tin-plated on the outside on request.

TECTUBE®_med

TECTUBE®_med is the KME brand tube especially designed for medical gas supply system equipment and for the production of vacuum installations.

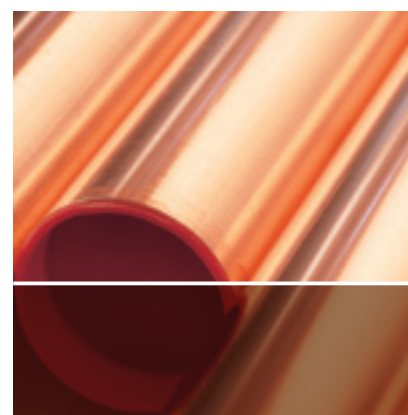
This tube features a smooth, clean, dry and specially cleaned inside surface. It surpasses the corresponding requirements of EN 13348 (seamless copper tubes for medical gases and vacuum).

This specification requires, among other things, that the maximum permissible contamination of the tube's inside surface (measured as carbon) may not exceed a level of 20 mg/m².

TECTUBE®_med tubes are suitable for medical technology tube systems according to EN 737-3. Each tube is firmly sealed at both ends to ensure the inner surface remains clean until the moment tubes are installed.

To guarantee traceability in compliance with the EU Pressure Equipment Directive PED 97/23/EC, the exact date on which the tube was manufactured, the dimensions of the tube and other information are engraved permanently on each tube.

The tube can only be supplied in straight lengths.



Tab. 1: Standard sizes TECTUBE®_cips in coils (supplied via ACR wholesale outlets)

Dimensions* mm	Weight (kg/m)	Max. permissible working pressure** (bar)	Temper	Pancake coils per carton	Coils wrapped in PE film	Shipping units	
						Pancake coils	Coils
6 x 1	0.14	200	R 200 soft	2 Pce. @ 35 m	1 Pce. @ 25 m	1,750 m	1,125 m
8 x 1	0.20	143	R 200 soft	2 Pce. @ 35 m	1 Pce. @ 25 m	1,400 m	875 m
10 x 1	0.25	111	R 200 soft	1 Pce. @ 35 m	1 Pce. @ 25 m	875 m	625 m
12 x 1	0.31	91	R 200 soft	1 Pce. @ 35 m	1 Pce. @ 25 m	700 m	625 m
15 x 1	0.39	71	R 200 soft	1 Pce. @ 25 m	1 Pce. @ 25 m	500 m	500 m
16 x 1	0.42	66	R 200 soft	1 Pce. @ 25 m	1 Pce. @ 25 m	500 m	375 m
18 x 1	0.48	59	R 200 soft	1 Pce. @ 25 m	1 Pce. @ 25 m	500 m	250 m
22 x 1	0.59	48	R 200 soft	1 Pce. @ 25 m	1 Pce. @ 25 m	500 m	250 m

* All tubes acc. to EN 12735-1

** Refers to temper R200 (soft) and nominal size, – calculated with fourfold safety margin acc. to DIN 43614

If the tubes are used in areas covered by the German pressurised vessel regulations, AD leaflet W 6/2 and the other relevant AD leaflets must be complied with.

Main inch-size dimensions also available from stock upon request.

Technical information

TECTUBE®_cips and **TECTUBE®_med** tubes are manufactured and delivered on the basis of a quality assurance system which has been certified successfully for many years according to DIN EN ISO 9001:2000 and ISO/TS 16949:2002 as well as PED 97/23/EC.

The material used in the **TECTUBE®_cips** and **TECTUBE®_med** copper tubes is Cu – DHP according to EN 12735-1 and EN 13348.

If you have further technical queries, please ask your customer to forward them to us.

Warranty

For **TECTUBE®_cips** tubes in coils and straight lengths we have a warranty agreement with the German Association of Refrigeration and Air-Conditioning Contractors (VDKF), Fellbach, and the Federal Guild Association (BIV) of the German Refrigeration Trade in Maintal.



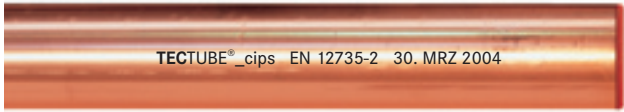
Tab. 2: Standard sizes **TECTUBE®_cips/med** in straight lengths (supplied via ACR wholesale outlets)

Dimensions* mm	Weight (kg/m)	Permissible working pressure** (bar)	Temper	Tubes per carton	Shipping unit
6 x 1	0.14	200	R 290, hard	40 Pce. @ 5 m	1,200 m
8 x 1	0.20	143	R 290, hard	40 Pce. @ 5 m	1,200 m
10 x 1	0.25	111	R 290, hard	24 Pce. @ 5 m	1,080 m
12 x 1	0.31	91	R 290, hard	10 Pce. @ 5 m	1,000 m
15 x 1	0.39	71	R 290, hard	10 Pce. @ 5 m	600 m
16 x 1	0.42	67	R 290, hard	10 Pce. @ 5 m	600 m
18 x 1	0.48	59	R 290, hard	10 Pce. @ 5 m	600 m
22 x 1	0.59	48	R 290, hard	10 Pce. @ 5 m	600 m
28 x 1	0.76	37	R 290, hard	10 Pce. @ 5 m	450 m
28 x 1,5	1.11	57	R 290, hard	10 Pce. @ 5 m	450 m
35 x 1,5	1.40	45	R 290, hard	5 Pce. @ 5 m	225 m
42 x 1,5	1.70	37	R 290, hard	5 Pce. @ 5 m	225 m
54 x 2	2.91	38	R 290, hard	5 Pce. @ 5 m	100 m
64 x 2	3.47	32	R 290, hard	***	10 m / 100 m
70 x 2	3.80	29	R 290, hard	***	10 m / 100 m
76,1 x 2	4.14	27	R 290, hard	***	10 m / 100 m
80 x 2	4.36	26	R 290, hard	***	10 m / 100 m
88,9 x 2	4.86	23	R 290, hard	***	10 m / 100 m
104 x 2	5.70	20	R 290, hard	***	5 m / 25 m
108 x 2,5	7.37	24	R 290, hard	***	5 m / 25 m
133 x 3	10.90	23	R 290, hard	***	5 m / 25 m

* All tubes acc. to EN 12735-1 and EN 13348

** Refers to temper R200 (soft) and nominal size, – calculated with fourfold safety margin acc. to DIN 43614

*** Without carton packaging, individual tubing 5 m, as small bundle/large bundle, wrapped with 3 x steel strip with corrugate paper underlay



TECTUBE[®]_cips



TECTUBE[®]_med



KME brand tubes **TECTUBE[®]_cips** and **TECTUBE[®]_med** are seamlessly drawn Cu-DHP copper tubes. They are supplied as straight lengths, in coils or pancake coils.

Product benefits

- Gas-tight
- Very clean inside surface TECTUBE[®]_cips
- Extremely clean inside surface TECTUBE[®]_med
- Traceability for every single tube
- Constant KME brand quality



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