



MECACO

Middle East Copper Alloy CO.

Copper Tube and Copper Products Supplier

Straight Copper Tubes

Straight copper tubes are mostly used in refrigeration and air conditioning industries, electrical industries and sanitary purpose. The length of Seamless Copper tubes with high precision, ultra clean and dry inner surfaces, closed tube ends in order to maintain cleanliness, bright finish and structure, corrosion resistant, high efficient heat exchanging and high electrical conductivity are provided by MECACO commercial group. By customer request, any straight length could be supplied.

Products Range

WT	mm	0.35	0.4	0.45	0.5	0.55	0.6	0.63	0.7	0.76	0.81	0.9	1.02	1.07	1.14	1.24	1.27	1.4	1.47	1.52	1.65	1.78	1.83	2.03	2.10	2.41		
mm	Inch	0.014	0.016	0.018	0.020	0.022	0.024	0.025	0.028	0.030	0.032	0.035	0.040	0.042	0.045	0.048	0.050	0.055	0.058	0.060	0.065	0.070	0.072	0.080	0.083	0.095		
6.35	1/4"																											
9.53	3/8"																											
12.7	1/2"								M	L	K																	
15.88	5/8"								M	L	K																	
19.05	3/4"								M	L	K																	
22.23	7/8"								M	L	K																	
25.4	1"								M	L	K																	
28.58	1 1/8"								M	L	K																	
31.75	1 1/4"								M	L	K																	
34.9	1 3/8"								M	L	K																	
38.1	1 1/2"								M	L	K																	
41.28	1 5/8"								M	L	K																	
44.45	1 3/4"								M	L	K																	
47.63	1 7/8"								M	L	K																	
50.8	2"								M	L	K																	
53.98	2 1/8"								M	L	K																	
57.15	2 1/4"								M	L	K																	
60.33	2 3/8"								M	L	K																	
63.5	2 1/2"								M	L	K																	

Note: Other sizes can be made as per customer requirement according to mutual agreement. K: Type K M: Type M L: Type L

General Specifications

Sizes		Length	Temper Designation			
Outside Diameter 4 - 66.67 (mm)	Wall Thickness 0.35 - 2.41 (mm)	10" - 20" 3000 - 6000 (mm)	Hard (H)	Half Hard (1/2 H)	Light Annealed (O50)	Soft Annealed (O60)
<small>(ASTM B280, B88, JIS H3300, EN 1057, EN 13600, EN 12733)</small>						
Application: Used for Air Conditioning & Refrigeration Ind., Piping Systems (i.e. piping, connections, repairs) Electrical and Sanitary Ind.						
These products are usually capped (both ends) and packed with Wrapped Plastic						

Pancake Coil Copper Tube (PCC)

Seamless Copper Tubes in the form of pancake intended for use in the connection, repairs and alternatives of air conditioning or refrigerator units in the field.

Pancake tubes are in accordance with specifications given in ASTM standards (B88 and B280) and European Norm Standard (EN12735) and other valid norms.

According to EN standard, Pancake Tube has a good bending properties for using in utility supplies such as plumbing installations, gas transport networks, air conditioning systems and refrigerant piping.

For this reason, this product is usually supplied in the annealed form.

All coils have ultra clean interior, and capped to keep it away from entering any contaminants.

Pancake Coil are individually labeled, shrink wrapped and boxed in cardboard cartons for ease of handling and distribution.



Level Wound Coil (LWC)

Level Wounded Coil (LWC) Seamless Copper Tube is one of the products of active companies in the field of copper. All Level Wounded Coil are manufactured to ASTM and EN Norm specifications. These standards have been prepared to meet the requirement of ACR industry.

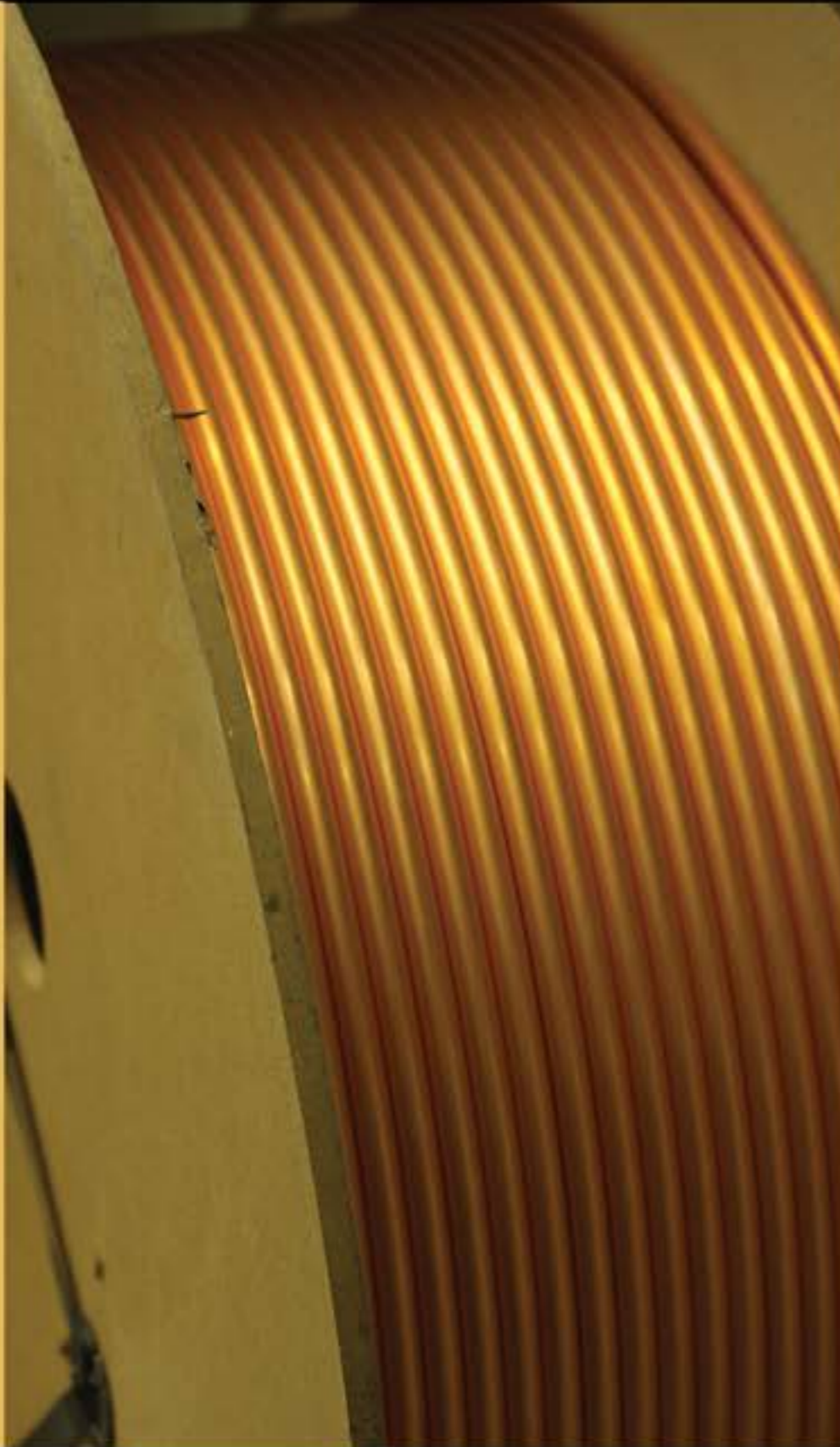
LWC are mostly suited to long production runs for industrial applications and it is generally used in Air Conditioning and Refrigeration in accordance with Heat Exchanging field.

Every inch of LWC tubes is Eddy-Current tested and any surface defects will be detected and marked by black color. During Annealing Process, the inside and outside of the tubes are cleaned by Nitrogen Purging.

In addition, in order to protect the tubes against dust and internal oxidation during transportation and storage, inside the LWC Tubes are purged and the end of tubes are sealed with plastic caps. These Coils are stocked on pallets and shrink wrapped. Level Wounded Coils are frequently supplied in the soft annealed form, also they can be ordered in hard drawn temper. LWC Tubes are commonly packed with wooden or cord board reels as per customer request.

LWC is available in following four specifications:

1. Standard LWC on Wooden reels or Cardboard reels
2. Standard LWC (bare coils)
3. LWC jumbo coils (bare coils)
4. Eye to the sky coil (bare coils)



Capillary Tube

Capillary copper pipes are critical parts used as restrictors against refrigerant flow and pressure in the refrigeration cycle of air conditions, electric refrigerators, showcases freezers. This copper tubing usually manufactured with fine precision, down to one thousandth of an inch. This precision allows airflow to be smoother, more uniform, and more closely monitored, making such applications as fluid & air restrictors much more useful. Capillary copper tubing has very small inside diameters.

Features of Capillary Copper Tube:

- 1.Small external diameter
- 2.High precision
- 3.Smooth internal and external surface

Rubber Insulation

Tube Insulation is an environmentally friendly CFC free, flexible elastomeric thermal insulation. With smooth shark skin and available in unslit form in wall Thickness of 3/8" in sizes ranging from 1/4 " to 2.5/8 " .

One of the main activities of the MECACO commercial Group is providing variety of high-quality installation accessories of the split air conditioning such as:

- Refrigerant Tubing
- Wrapping Tape
- Cover Kit
- Flexible Electrical Whip
- Service Port Adapter
- Wall Mounting Bracket
- Bending Pipe Spring



Copper Fittings

Mecaco offers a large selection of copper fittings at the most competitive prices. These fittings are manufactured to ASTM and ANSI standards from high purity, commercial grade C12200 alloy also used by leading copper manufacturers in Iran.

These copper pipe fittings are also standards for use in portable water applications, and Lead-Free compliant.



Copper-Clad Steel

Copper-Clad Steel Tubes are prepared from Steel tubes with cover of copper coating. The main specifications of this type of tubes are high corrosion strength, high self-lubricating power and lower price in comparison with copper tubes.

Considerable amount of copper-clad steel tubes are used in refrigeration and air conditioning industries. It is possible to order these tubes from 4.76 mm of diameter to 16.0 mm, and depending on request it is possible to order the copper coating cover in one (outside) or two layers (inside and outside). Mecaco supplies these tubes from 0.6 mm of thickness to 1.2 mm in thickness range of 0.1.



Copper Rod

Technical Specifications :

- Electrolytic Tough-Pitch (ETP) Copper Rod produced on Continuous-Properti Line (Continuous casting and hot rolling) Standard

- ASTM B49-10

Typical Analysis (UNS number C11040) :

- Copper include Silver min.99.99%

- Oxygen 250±15 ppm

Physical Characteristics :

- Diameter From 1.38 to 17 ± 0.38 mm

Packing :

- On wooden pallet 1.7 m x 1.7 m with plastic cover

- Weight 5 ton/ coil (other weights upon request)

- With wax coating

- Without joints


Copper Cathode


Another product that MECACO Group supply is Copper Cathode . Copper cathode is achieved by the thermophile micro-organisms in acidic solutions and through sulfide copper concentrate solution. Then through common method of solution extraction and electro winning the LME grade A (99.99%) is produced.



About us

One of the main concerns of the supply and service industry is providing the best quality raw materials at the right price and at the earliest possible time. In the same vein, the Middle East copper Alloy Company is trademarks of the Macao Commercial Group with the aim of offering the first products of copper and copper alloys. With high quality and at the lowest price and accessibility, the craftsmen are proud to serve respectable manufacturers in the shortest time. The main objective of the MECACO Commerce Group is to serve the industrialists who are committed to helping to boost our beloved economy.

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