Industrial Tubes Made from Copper and Copper Alloys
The most important customers for KME Industrial Tubes are found in the refrigeration and air conditioning industry, among the fittings manufacturers, hot water system manufacturers, the solar thermal industry and the electrical and electronic industry.

As a global company KME operates manufacturing plants and sales offices in many countries, while an international service network ensures that our customers are always well looked after. Two of the company's own research and development centres in Europe and a quality management system certified according to the ISO 9000 series as well as TS 16949 and ISO 14001 create a solid basis for innovative products with an exceptionally high manufacturing quality.
Contents

Industrial tubes 1
KME 3
TEC TUBE® 4
TEC TUBE®_clim 6
TEC TUBE®_fin 8
TEC TUBE®_cips 10
TEC TUBE®_fit 12
TEC TUBE®_heat 14
TEC TUBE®_com 16
TEC TUBE®_solar 18
TEC TUBE®_power 20
TEC TUBE®_med 22
TEC TUBE®_flow 24
ISO 9000/TPM 26
ISO 9000/TPM 28
Research and development 30
Production 30
Copper 31
Service 32
Level wound coils (LWC) 34
Straight lengths 35
Coils 35
Capillary tubes 35
Variants 36
Supply conditions
Sales
KME is one of the largest manufacturers of copper and copper alloy products in the world. In its Building Products, Industrial Tubes and Industrial Rolled, Brass Products and Special Products business units the company manufactures a wide range of semi-finished and finished products for various processing industries. This includes a wide range of application-specific Industrial Tubes developed and produced in our Industrial Tubes Units.
KME offers a wide range of copper tubes for industrial applications – tubes produced in the highest quality according to the specific requirements of our customers. To clearly demonstrate the technical applications for which these tubes can be used we gave them the brand name **TECTUBE®**. Take advantage of our wide range of tubes and benefit from many application-oriented solutions that copper provides.
| TECTUBE®_clim | Smooth copper tubes for ACR heat exchangers, ACR components and ceiling cooling systems |
| TECTUBE®_fin | Innergrooved copper tubes for ACR heat exchangers |
| TECTUBE®_cips | Copper tubes for the connection of refrigeration and air-conditioning components and for industrial and laboratory gas systems |
| TECTUBE®_fit | Copper tubes for the production of fittings |
| TECTUBE®_heat | Copper tubes for boilers, water heaters and district heating systems |
| TECTUBE®_com | Copper tubes for high-frequency cables |
| TECTUBE®_solar | Copper tubes for solar absorbers and solar collectors |
| TECTUBE®_power | Copper tubes for electric cables and cable connectors |
| TECTUBE®_med | Copper tubes for medical gases and vacuum installations |
| TECTUBE®_flow | Capillary copper tubes for refrigeration systems and measuring technology |
Smooth Copper Tubes for ACR Heat Exchangers, Refrigeration System Components and Ceiling Cooling Systems

Our special tube for ACR heat exchangers and for components in air conditioning and refrigeration (ACR) systems as well as for ceiling cooling systems goes by the name of TECTUBE®_clim. This seamlessly drawn copper tube which we mainly supply as level wound coils has a smooth, dry and especially clean interior surface.

**Product Benefits**

- high purity copper • seamlessly drawn
- smooth and dry inner surface • KME brand quality

| Field of Application | – Tubes for hairpins  
| Tube types | – Tubes for filter devices  
| Availability | – Tubes for cooling ceilings  
| Material | – Tubes for return bends  
| Temper | Seamless drawn tubes  
| a) light annealed | Level wound coils (LWC)  
| b) soft annealed | Straight lengths  
| c) special tempers on request | Material 
| Outer diameter | Cu-DHP  
| Thickness | 6.00 - 22.22 mm (up to 60mm for filter devices)  
| Specification | 0.25 - 1.20 mm  
| Packaging | TECTUBE TI-001 / EN 12735 : 2  
| – level wound coils (LWC), separated by cardboard layers,  
| – on wooden pallets or on cardboard reels 1,200 x 1,200 mm  
| – level wound coil (LWC) with cardboard core.  
| – pallets with coils (LWC) are covered with PE stretch film.  
| – straight lengths in bundles or in wooden boxes.  
| – coils (LWC) with the option of decoiling from the centre.  

| Temper | and all relevant international standards  
| Packaging | – level wound coils (LWC), separated by cardboard layers,  
| – on wooden pallets or on cardboard reels 1,200 x 1,200 mm  
| – level wound coil (LWC) with cardboard core.  
| – pallets with coils (LWC) are covered with PE stretch film.  
| – straight lengths in bundles or in wooden boxes.  
| – coils (LWC) with the option of decoiling from the centre.  

KME Germany GmbH & Co. KG – TECTUBE®
To equip heat exchangers in refrigeration and air conditioning systems we developed seamless tubes with a large number of special groove structures on the inside surface of the tube – TECTUBE®_fin. These are performance-optimised tubes enabling the production of compact, economical evaporators and condensers for refrigeration and air conditioning systems.

We offer them in level wound coils with a wide range of weights and sizes.
**Product Benefits**

- **high purity copper**
- with **highly developed groove structure**
- **for condensation or evaporation**

<table>
<thead>
<tr>
<th>Field of Application</th>
<th>Tubes for hairpins in heat-exchangers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tube types</td>
<td>Seamless drawn tube with structured (grooved) inner surface</td>
</tr>
<tr>
<td>Availability</td>
<td>Level wound coils (LWC)</td>
</tr>
<tr>
<td>Material</td>
<td>a) light annealed</td>
</tr>
<tr>
<td></td>
<td>b) soft annealed</td>
</tr>
<tr>
<td>Temper</td>
<td>6.00 – 16.00 mm</td>
</tr>
<tr>
<td>Outer diameter</td>
<td>0.25 – 0.50 mm</td>
</tr>
<tr>
<td>Thickness</td>
<td>fin height: 0.05 – 0.3 mm</td>
</tr>
<tr>
<td></td>
<td>(0.18/0.20 and 0.25/0.27 are the typical fin heights)</td>
</tr>
<tr>
<td>Specification</td>
<td>TECTUBE TI-001 / EN 12735 - 2</td>
</tr>
<tr>
<td></td>
<td>and all relevant international standards</td>
</tr>
<tr>
<td>Packaging</td>
<td>- level wound coils (LWC), separated by cardboard layers,</td>
</tr>
<tr>
<td></td>
<td>on wooden pallets or on cardboard reels 1,200 x 1,200 mm</td>
</tr>
<tr>
<td></td>
<td>- level wound coil (LWC) with cardboard core.</td>
</tr>
<tr>
<td></td>
<td>- pallets with coils (LWC) are covered with PE stretch film.</td>
</tr>
<tr>
<td></td>
<td>- coils (LWC) with the option of decoiling from the centre of the coil.</td>
</tr>
</tbody>
</table>
This tube has a smooth, especially clean and dry inner surface. It exceeds the relevant requirements of the EN 12735-1 standard (seamless, round copper tubes for air conditioning and refrigeration; tubes for piping systems) and ASTM B 280. These two international specifications for seamless connection tubes for air conditioning and refrigeration specify that the purity of the inside surface of the tube must remain within the admissible limit of 0 to 0.38 mg/dm².

To ensure that the inner surface remains clean until the tube is used every tube has a cap or plug on each end.

To guarantee traceability according to European Pressure Equipment Directive 97/23/EC each tube shows the exact production date, the size and other data.

The tubes are supplied as straight lengths or coils. The most popular form of delivery is in pancake coils.

### Product Benefits

- high purity copper
- seamlessly drawn
- smooth, clean and dry inner surface
- KME brand quality
TECTUBE®_fit

Copper Tube for Fittings Manufacturing

TECTUBE®_fit is our tube for fittings manufacturing. It is especially developed to the requirements of fittings manufacturers. The tube is easy to form and has perfect dimensional accuracy.

We supply this seamlessly drawn copper tube in straight lengths and level wound coils.
Product Benefits

- high purity copper
- seamlessly drawn
- KME brand quality
Our special tube for water heaters and district heating systems goes by the name of **TEC TUBE®_heat**.

We supply this seamlessly drawn copper tube in level wound coils or straight lengths.

**Product Benefits**

- high purity copper
- seamlessly drawn
- KME brand quality
- for complex shapes

<table>
<thead>
<tr>
<th>Field of Application</th>
<th>Copper tubes for water heaters and district heating systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tube types</td>
<td>Seamless drawn tubes</td>
</tr>
<tr>
<td></td>
<td>- level wound coils,</td>
</tr>
<tr>
<td></td>
<td>- jumbo coils,</td>
</tr>
<tr>
<td></td>
<td>- also available in straight lengths</td>
</tr>
<tr>
<td>Availability</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Cu-DHP</td>
</tr>
<tr>
<td>Temper</td>
<td>Annealed, other temper on request</td>
</tr>
<tr>
<td>Outer diameter</td>
<td>6.00 – 108.00 mm</td>
</tr>
<tr>
<td>Thickness</td>
<td>0.45 – 2.50 mm</td>
</tr>
<tr>
<td>Specification</td>
<td>EN 12449 or according to individual customer specification</td>
</tr>
<tr>
<td></td>
<td>- level wound coils with or without cardboard core.</td>
</tr>
<tr>
<td></td>
<td>- separated by cardboard layers, on wooden pallets max. 1,200 x 1,200 mm</td>
</tr>
<tr>
<td></td>
<td>- for standard coils (outside diameter of coil max. 1,150 mm).</td>
</tr>
<tr>
<td></td>
<td>- jumbo coils on pallets of max. 1,470 x 1,470 mm</td>
</tr>
<tr>
<td></td>
<td>- the stacked coils (LWC) are covered with PE stretch film.</td>
</tr>
<tr>
<td></td>
<td>- straight lengths in bundles or in wooden boxes.</td>
</tr>
</tbody>
</table>
Copper Tubes for High-Frequency Signal Cables and Data Communication

For the production of high-frequency signal cables we supply TECTUBE®_com as ideal inner conductor.

We supply this seamlessly drawn copper tube in level wound coils with a wide range of sizes and in specified lengths.

**Product Benefits**

- high purity copper
- seamlessly drawn
- KME brand quality
TECTUBE®_solar

Copper Tubes for Solar Absorbers and Solar Collectors

We developed TECTUBE®_solar especially for the use in solar absorbers and solar collectors. These tubes have an especially clean surface for best connection-quality to the absorber.

We supply these seamlessly drawn copper tubes in level wound coils and straight lengths.

<table>
<thead>
<tr>
<th>Field of Application</th>
<th>Copper tubes for solar absorbers and solar collectors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tube types</td>
<td>Seamless drawn tubes</td>
</tr>
<tr>
<td></td>
<td>- level wound coils,</td>
</tr>
<tr>
<td></td>
<td>- straight lengths</td>
</tr>
<tr>
<td>Availability</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- level wound coils,</td>
</tr>
<tr>
<td></td>
<td>- straight lengths</td>
</tr>
<tr>
<td>Material</td>
<td>Cu-DHP</td>
</tr>
<tr>
<td>Temper</td>
<td>All</td>
</tr>
<tr>
<td>Outer diameter</td>
<td>6.00 - 22.00 mm</td>
</tr>
<tr>
<td>Thickness</td>
<td>0.40 - 1.00 mm</td>
</tr>
<tr>
<td>Specification</td>
<td>EN 12449 or according to individual customer specification</td>
</tr>
<tr>
<td></td>
<td>- level wound coils with or without cardboard core.</td>
</tr>
<tr>
<td></td>
<td>- separated by cardboard layers, on wooden pallets max. 1,200 x 1,200 mm</td>
</tr>
<tr>
<td></td>
<td>- the stacked coils (LWC) are covered with PE stretch film.</td>
</tr>
<tr>
<td></td>
<td>- straight lengths in bundles or in wooden boxes.</td>
</tr>
</tbody>
</table>

Product Benefits

- high purity copper
- seamlessly drawn
- outstanding cleanliness
- KME brand quality
For electric cables and cable shoes: TECTUBE®_power.

We supply these seamlessly drawn copper tubes as level wound coils and straight lengths.

<table>
<thead>
<tr>
<th>Field of Application</th>
<th>Copper tubes for electric cables and cable shoes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tube types</td>
<td>Seamless drawn tubes</td>
</tr>
<tr>
<td></td>
<td>- straight lengths</td>
</tr>
<tr>
<td></td>
<td>- level wound coils (max. 570 kg)</td>
</tr>
<tr>
<td>Availability</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Cu-DHP / Cu-ETP / Cu-OXLP / Cu-OFE / Cu-PAH / Cu-HCP</td>
</tr>
<tr>
<td>Material</td>
<td>All</td>
</tr>
<tr>
<td>Temper</td>
<td></td>
</tr>
<tr>
<td>Outer diameter</td>
<td>6.00 - 135.00 mm</td>
</tr>
<tr>
<td>Thickness</td>
<td>0.80 - 10.00 mm</td>
</tr>
<tr>
<td>Total length of the tube</td>
<td>3 – 8 m (up to 14m on request)</td>
</tr>
<tr>
<td>Specification</td>
<td>EN 13600 or individual customer specification</td>
</tr>
<tr>
<td>Packaging</td>
<td>- level wound coils without cardboard core.</td>
</tr>
<tr>
<td></td>
<td>- separated by cardboard layers, on wooden pallets max. 1,200 x 1,200 mm</td>
</tr>
<tr>
<td></td>
<td>- jumbo coils on pallets of max. 1,470 x 1,470 mm</td>
</tr>
<tr>
<td></td>
<td>- the stacked level wound coils (LWC) are covered with PE stretch foil.</td>
</tr>
</tbody>
</table>

Product Benefits

- high purity copper
- seamlessly drawn
- high conductivity
- clean inner surface
- KME brand quality
- heavy coil weights
**Product Benefits**

- **high purity copper**
- **extremely clean inner surface**
- **KME brand quality**
We developed TECTUBE®_flow for refrigeration and air conditioning systems and for measuring technology. These precisely manufactured and clean tubes can be adapted to suit all relevant areas of application. Extremely accurate flow volumes are one of the special features.

We supply these seamlessly drawn copper tubes in coils and as level wound coils.
Product Benefits

- high purity copper
- seamlessly drawn
- smooth inner surface
- clean, dry inside surface
- KME brand quality
- tested for accurate flow volumes
**KME defines quality as a task for every single employee and practices a continuous process of improvement at every workplace.** We continuously set ourselves the task of structuring our workflows including our manufacturing processes more efficiently and reliably in terms of organisation, technology and personnel in order to meet the expectations of everyone involved – especially our customers.

Quality and cost awareness are complementary aspects of our company’s business operations. Organisational systems that are transparent, tailored to suit the users and taking account of the requirements and situations on the markets, the technology and the relevant standards are vital tools in this respect. Involvement and commitment of all employees are essential requirements for the functioning of this organisational system. Consequently, KME uses quality management systems based on the ISO 9000 series which are certified and monitored by well-known certification bodies.

Various locations are also certified according to TS 16949 (automotive) and ISO 14001 (environmental management).
Intensive and continuous research and development is a major factor in KME’s success story. All R&D activities have been arranged across the group’s and aligned to our customers' needs.

KME’s research and development work is distributed between R&D-centres – Osnabrück (D) und Fornaci di Barga (I) – according to strategic company aspects. The work at these facilities is coordinated throughout Europe. One focus in Fornaci di Barga (I) is development of copper alloys. In Osnabrück, among other things, the research centre supports development of continuous casting productions.
Production

The production process for seamless drawn copper tubes begins with melting and casting of the material.

The entire production process of the raw material until the semi-finished product is carried out in the KME Group plants. The cast copper billets are heated and processed into the extrusion tube on a press. After extrusion, the tube is cold formed to its final size. Different production lines are used, such as draw benches, pilger rolling mills, spinner blocks and other special drawing machines. For almost all of the tubes the main properties are achieved through subsequent annealing.

KME has continuously optimised this production process with new concepts and detailed solutions. The most significant example of this large level wound coils which are now one of the most common delivery forms for technical processing.

Copper

The world today would be inconceivable without copper: we all take electricity supply, refrigeration and air conditioning, transport and telecommunication for granted and can thank copper for the high standards that exist in these industries. In the course of technological development copper has become essential, its function as a future-oriented material is unchallenged.

As a natural material, copper is environmentally friendly and 100% recyclable; the metal is extremely resistant to ageing and corrosion and is therefore suitable for many different applications. Copper shows its true value under extreme stress and also when extreme reliability is required - such as in power plants, IT systems, communication facilities and off shore oil rigs.

Industrial copper tubes are used for a wide range of technical applications.
Service

Our success in the development and production of tubes for industrial applications is primarily due to our close collaboration with our customers. We see their problems as our challenge; their success is our top priority.

To satisfy our customers' needs we are never simply satisfied with the nearest solution; instead we work intensely to optimise all the parameters related to the use of our products. In many applications this starts with our collaboration in the engineering of the end product and the customer's processing technology. We can always produce special designs based on our standard products. Within the scope of defined volumes we are also prepared to keep stock for peak demand or just-in-time delivery. We are an active partner for optimised delivery forms and practical packaging of the tubes as well as the return of scrap tubes and cuttings.
Level wound coils (LWC)

An LWC is a coil wound in several levels with different coil weights according to the customers requirements up to 560 kg.

They can be delivered as
- Standard coil (LWC)
- Standard coil on cardboard core
- Jumbo coil (LWC)

Winding direction

This important detail must be defined for new products. The winding direction can be:

1. Clockwise (standard).
   This is the case when the end of the tube is at the bottom of a horizontal coil.
2. Anti-clockwise (optional)
   This is the case when the end of the tube of the innermost layer is at the top of a horizontal coil (see photo on the left).
### Standard coil (LWC)

- **Outer diameter**: 6 – 28 mm
- **Thickness**: 0.25 – 2.25 mm
- **Nominal weight of the LWC**: approx. 90/110/140/225/280/450/560 kg
- **Tempers**:
  - a) light annealed
  - b) soft annealed
  - c) hard
  - d) special grades
- **Coil size**
  - Inner diameter: 610 mm
  - Outer diameter max. 1,160 mm
  - Height: 200 – 650 mm
- **Additional options**
  - a) specially cleaned
  - b) eddy current test
  - c) marked with ink text
  - d) special wound grades, e.g. DFC

### Standard coil on cardboard reels

- **Outer diameter**: 6 – 22.22 mm
- **Thickness**: 0.28 – 1.20 mm
- **Nominal weight of the LWC**: max. 150 kg
- **Tempers**:
  - a) light annealed
  - b) soft annealed
- **Coil size**
  - Outer diameter max. 1,060 mm
  - Height: 225/245/270/290/325 mm
- **Core hole**: 130 mm
- **Additional options**
  - a) specially cleaned
  - b) eddy current tested
  - c) marked with ink text
  - d) special coil forms, e.g. DFC

### Jumbo coil (LWC)

- **Outer diameter**: 18 – 40 mm
- **Thickness**: 1.0 – 2.5 mm
- **Nominal weight of the LWC**: approx. 450/560 kg
- **Tempers**:
  - a) light annealed
  - b) soft annealed
  - c) hard, hard relaxed
  - d) special grades
- **Coil size**
  - Inner diameter: 860 mm
  - Outer diameter max. 1,450 mm
  - Height: 270 – 520 mm
- **Additional options**
  - a) specially cleaned
  - b) eddy current tested
  - c) marked with ink text
  - d) special coil forms, e.g. DFC
Straight lengths

Domestic heating – Copper tubes are a basic component of electrical heating systems and water heaters. KME continuously develops its tubes to fulfil higher standards; thanks to its experienced employees KME is a reliable partner for this industry.

Tubes for fittings – KME’s copper tubes in straight lengths are suitable for the production of fittings. KME has initiated intensive cooperation agreements and partnerships with the largest European companies on this market segment in order to guarantee outstanding products.

Production specifications for tubes in straight lengths

<table>
<thead>
<tr>
<th>Outer diameter</th>
<th>5 - 135 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness</td>
<td>0.5 - 10.5 mm</td>
</tr>
<tr>
<td>Length</td>
<td>3,000 - 8,300 mm</td>
</tr>
<tr>
<td></td>
<td>(lengths between 8,300 mm and 14,000 mm available on request)</td>
</tr>
<tr>
<td>Temper</td>
<td>All</td>
</tr>
<tr>
<td>Additional options</td>
<td>a) degreased</td>
</tr>
<tr>
<td></td>
<td>b) embossed</td>
</tr>
<tr>
<td></td>
<td>c) marked with ink (additional text)</td>
</tr>
<tr>
<td></td>
<td>d) stamped</td>
</tr>
</tbody>
</table>

KME Germany GmbH & Co. KG — TECTUBE®
Coils

KME produces coils in various types to satisfy different processing requirements.

Production specifications for pancake coils and coils

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outer diameter</td>
<td>6 – 22.22 mm</td>
</tr>
<tr>
<td>Thickness</td>
<td>0.7 – 1.2 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>2.5 – 25 kg</td>
</tr>
<tr>
<td>Temper</td>
<td>annealed</td>
</tr>
<tr>
<td>Coil size</td>
<td>Outer diameter max. 900 mm</td>
</tr>
<tr>
<td></td>
<td>Max. height 120 mm</td>
</tr>
<tr>
<td>6 – 22.22 mm</td>
<td></td>
</tr>
</tbody>
</table>

- b) eddy current test
- c) marked with ink (additional text)
- c) stamped

Capillary tubes

Copper capillary tubes are used in various applications, such as industrial refrigeration systems, air conditioning units, heat exchangers and boilers as well as in measuring and control applications.

Production specifications for capillary tubes

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outer diameter</td>
<td>3 – 6 mm</td>
</tr>
<tr>
<td>Thickness</td>
<td>0.3 – 1.0 mm</td>
</tr>
<tr>
<td>Material</td>
<td>Cu-DHP/Cu-ETP/Cu-PHC/Cu-HCP</td>
</tr>
<tr>
<td>Temper</td>
<td>All</td>
</tr>
<tr>
<td>Tube format</td>
<td>• LWC</td>
</tr>
<tr>
<td></td>
<td>• Coiled on plastic reel</td>
</tr>
<tr>
<td></td>
<td>• Straight lengths</td>
</tr>
<tr>
<td>Tube type</td>
<td>Smooth, seamless drawn</td>
</tr>
<tr>
<td>Specification</td>
<td>According to the individual customer specification</td>
</tr>
</tbody>
</table>

Variants

KME offers smooth copper tubes and innergrooved copper tubes.

Smooth tubes

Smooth tubes have a clean and dry inner surface with no residues or irregularities.

Smooth tubes are defined by

- the outer diameter (OD) and thickness (T)
- or
- the outer diameter (OD) and the inner diameter (ID)

Inner grooved tubes

have a special profiled structure on the inside of the tubes that intensifies heat exchange.

Inner grooved tubes are defined by

- the outside diameter (D)
- the thickness of the bottom wall (Tf)
- the groove depth (H)
- the groove angle (α)
- the helix angle (ß)
- the weight per metre (W/m)
- the inside diameter (d) at groove tip
- the number of grooves (N)
Supply conditions

Packaging

For each product type we offer optimised packaging options to satisfy our customers' requirements.

**Straight lengths**
- In wooden boxes
- In bundles, tube ends sealed with
  - Plastic caps/plugs
  - Plastic bags
- In cardboard boxes, tube ends sealed with plastic caps/plugs

**LWC packaging**
Level wound coils are delivered on disposable wooden pallets; rigid cardboard layers are inserted between the coils. The coils are held on the pallet with PE stretch foil.

**Packaging for pancake coils and coils**
One packaging unit contains a specific number of tubes.

Minimum order quantities

The minimum order quantity depends on the type of delivery.

<table>
<thead>
<tr>
<th></th>
<th>Minimum Order Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straight lengths</td>
<td>2 tons</td>
</tr>
<tr>
<td>Level wound coils (LWC)</td>
<td>3 tons</td>
</tr>
<tr>
<td>Pancake coils</td>
<td>2 tons</td>
</tr>
<tr>
<td>Capillary tubes</td>
<td>0.5 tons</td>
</tr>
</tbody>
</table>

Stock products availability of according to packaging units.

Technical Delivery Conditions

All tubes produced by KME for industrial applications fulfil national and international standards and regulations, as well as specific customer requirements.

**EN ISO 9001**
"Quality Management Systems – Requirements"

**EN 12 735-1**
"Seamless round copper tubes for air-conditioning and refrigeration – Part 1: Tubes for piping systems"

**EN 12735-2**
"Copper and copper alloys - Seamless, round copper tubes for air conditioning and refrigeration – Part 2 : Tubes for heat exchangers"

**EN 10204**
"Metallic Products - Types of Inspection Documents"

**EN 12449: 1999**
"Copper and copper alloys – Seamless, round tubes for general purposes"

**EN 13 348**
"Seamless copper tubes for medical gas application and vacuum"

**EN 13 600**
"Copper and Copper alloys – Seamless copper tubes for electrical applications"

**ASTM B 68**
"Standard Specification for Seamless Copper Tube, Bright Annealed"

**ASTM B 75**
"Standard Specification for Seamless Copper Tube"

**ASTM B 280**
"Seamless Copper Tube for Air Conditioning and Refrigeration Field Service"

**ASTM B 743**
"Standard Specification for Seamless Copper Tube in Coils"

**JIS H 3300**
"Copper and copper alloy seamless pipes and tubes"