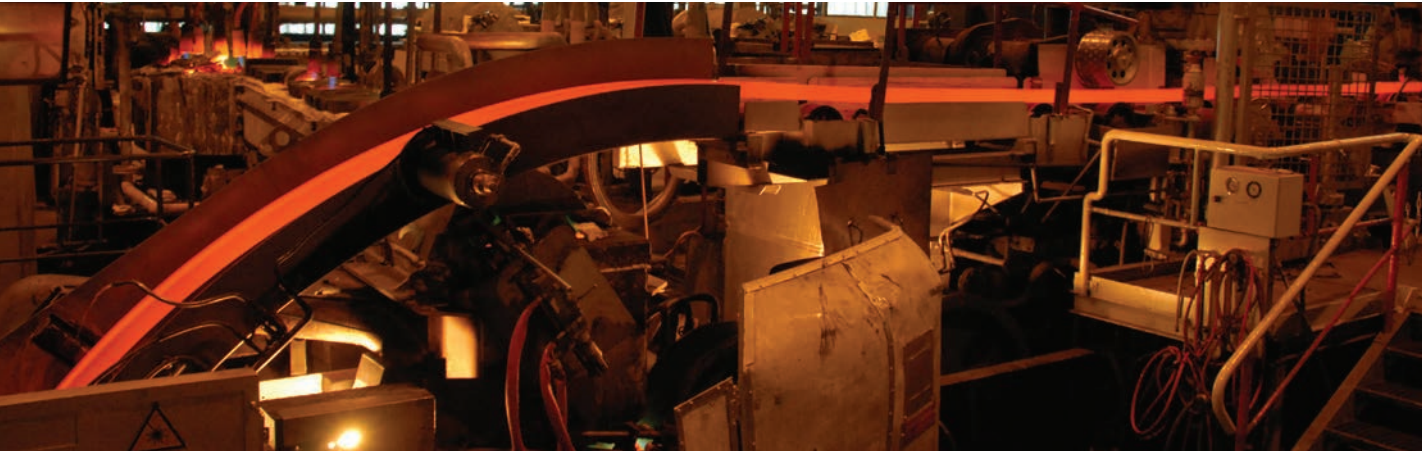




Low-Carbon Copper ROD



Conductive



High conductivity from the purest in-house produced low-carbon copper

Only copper can reach nearly the same electrical conductivity as silver, and the combination of conductivity, formability and total cost of ownership in relation to its other properties makes copper the optimal and most sustainable choice for wires and conductors in cables. We provide yearly product-specific Environmental Footprint Declarations based on Life Cycle Assessments (LCAs), offering transparent and verified environmental data for our copper wire rod products. We attain the high conductivity of Aurubis ROD, dg-RheinROD and Aurubis FOXROD with very low carbon footprints by starting from our in-house produced high-purity copper cathodes and to some extent clean Millberry scrap from customers. Only a few other companies in the world have the same level of expertise as Aurubis in copper smelting and refining — the precursor to tankhouses as we know them today was developed by Aurubis in 1876.

The metallurgical expertise in our company is what enables us to manufacture copper wire rod with benchmark conductivity exceeding the standards. No matter if your wire application requires Cu-ETP1 or Cu-OFE, we can supply the rod.

Standard grades

8 mm Cu-ETP1 wire rod suited for any application can be supplied from any of our rod lines, and in most of our lines we can also produce various larger diameters. In addition, there are 2 new low-oxygen ROD grades called LimOx | LimOx+ for hairpin applications in e-traction motors.

Oxygen-free

Specific applications require copper that is more or less free of oxygen. Our solution is Aurubis FOXROD, which is a Cu-OFE wire rod containing less than 4 ppm oxygen. In addition to high conductivity, Cu-OFE copper is also resistant to hydrogen embrittlement and can be used in fire-resistant applications as well as when welding is needed.

A little extra something

Sometimes just a small addition of another element makes a big difference. In addition to unalloyed Cu-ETP1 and Cu-OFE, we also have high-performance alloys in our portfolio. They are produced on the same production lines as the pure copper grades with a small amount of the alloying element added to the melt. In this way, we can change the mechanical properties of the copper wire rod to perfectly fit your application.

Reliable

Reliability though redundancy

We make every effort to keep our production facilities running and in great shape, including preventive maintenance and 5S. Unplanned standstills can never be totally avoided, but we will still be able to supply you with the product you need, as our lines stand in for each other. Aurubis redundancy is unparalleled. We have four production lines for Cu-ETP1 wire rod — two in Germany, one in Italy, and one in Belgium. In total, we have capacity to produce more than a million tons of copper wire rod per year. The oxygen-free FOXROD production is located at a single site in Belgium, but there we have redundancy within the site with six independent lines.

The main feedstock for our wire rod plants is copper cathode, another area where you will benefit from the multi-redundancy within Aurubis. In total, we have four tankhouses fed with anodes from four metallurgical plants, where the input material comes either from one of our two main primary smelters or from one of our recycling facilities.

- Copper cathode production
- ROD production



Formable

The right copper wire rod for your application

Almost all copper wire starts its life as wire rod. It is the most common copper semi in the world next to cathode. Aurubis is the largest independent producer of wire rod in Europe. We have achieved this position through years of hard, focused work by some of the best professionals in the market. We are also working together with leading manufacturers of wire drawing machinery, dies and lubricants as well as with customers to better understand how our wire rod behaves in your processes. Today, we can supply Cu-ETP1 wire rod in well-defined qualities tailored to your needs. No matter if you are looking for the best drawability for the thinnest wire or for running your multi-wire lines at high speed with minimized breaks, our Aurubis ROD, dg-RheinROD and FOXROD are there for you.

Surface to your preference

Although what's on the inside is most important, we pay great attention to the outside, too. We can supply rod with smooth or rough surfaces depending on your needs. Our rod surface is perfectly aligned with the needs of modern thin, heat-resistant insulation systems for round and flat wires. Thin insulation film or strip enables optimization of the copper content in windings in motors for the car industry, power transformers, and generators, to name a few examples. Thanks to the uniform high surface quality, the enamel layer can be thinner and still provide flawless insulation. Our wire rod fulfills all requirements for use in demanding automotive applications.

Conductors don't have to be round

Wire drawing is no doubt the most common next step for our wire rod, but it is equally well suited for other cold forming processes. In Belgium we use our own FOXROD as input material for Conform to make bars & profiles. Aurubis ROD and dg-RheinRod are also very well suited for rolling into flat wire.



Broad portfolio



Material grades for Aurubis ROD, dg-RheinROD & Aurubis FOXROD					
	Base material type	Diameter	Characteristic chemical elements	Conductivity in % IACS	Cu content
Copper wire rod	Cu-ETP1	8 – 23.5 mm	100 – 400 ppm Oxygen	> 101	min 99.99 %
	LimOx*	8 mm	80 – 120 ppm Oxygen	> 101	min 99.99 %
	LimOx+*	8 mm	max. 40 ppm Oxygen	> 101	min 99.99 %
	Cu-OFE	8 – 25 mm	< 4 ppm Oxygen	> 101	min 99.99 %
Cu-HCP	Cu-OFE	8 – 21 mm	10 – 70 ppm P	> 101 – 97.4	min 99.95 %
Cu-DXP	Cu-OFE	8 – 21 mm	400 – 600 ppm P	> 76.4 – 67.8	min 99.9 %
CuAg	Cu-ETP1	8 – 23.5 mm	50 – 1200 ppm Ag	> 100	Rest
	Cu-OFE	8 – 25 mm	50 – 5000 ppm Ag	> 100	Rest
CuSn	Cu-ETP1	8 mm	50 – 3000 ppm Sn	100 – 78	Rest
	Cu-OFE	8 – 25 mm	50 – 5000 ppm Sn	100 – 66	Rest

* New product, based on Cu-ETP1 and only compliant with DIN EN 1977.

In accordance with the latest DIN EN 1977 & ASTM B49 standards (where applicable).

All Aurubis ROD | RheinROD plants are certified in accordance with the latest ISO 9001, 14001, 45001 and 50001 standards.



Beyond conductivity

What sets Aurubis apart:

- » Security of supply — Reliable, resilient and global delivery, even in volatile markets.
- » Quality leadership — Ensuring high standards through operational excellence and continuous improvement.
- » Sustainability leadership — Enabling low-carbon copper solutions with measurable ESG impact across the value chain.
- » Digital solutions — Driving the adoption of digital tools that simplify collaboration and transactions.
- » Financial robustness — A strong balance sheet enabling long-term partnerships and investment stability.
- » Service excellence — Fast, proactive and solution-oriented support across every customer touchpoint.
- » Price risk management — Flexible copper price fixation models, including Copper on Account, ensuring transparency, hedging security, and supply chain flexibility.
- » Flexible logistics solutions — Tailored, efficient and resilient delivery concepts aligned with your production and planning needs.

For our vision of a future-proof, sustainable metals industry — Tomorrow Metals.

- » Tomorrow Metals is our Aurubis sustainability promise. It is a symbol of our commitment to transform the metals industry — by sourcing and producing materials responsibly, with a deep sense of purpose.
- » Our **Aurubis sustainability promise** is based on four pillars:
 - » **Responsibility** — Everything we do focuses on a balance of economy, environment and people.
 - » **Environmental Impact** — We are committed to delivering more value with less environmental footprint.
 - » **Decarbonization** — We ensure transparent and measurable progress in our emission reductions towards net zero.
 - » **Circularity** — We expand multimetal recycling to conserve natural resources and strengthen the circular economy.



Shaping Tomorrow.

Together. Today.

aurubis.com/tomorrowmetals



**Tomorrow
Metals**

Metals for Progress



Contact details for Aurubis ROD | RheinROD

Aurubis AG
Hovestrasse 50
20539 Hamburg, Germany
www.aurubis.com/rod

Sales
rod@aurubis.com
+49 40 7883-2285