



High Purity Copper Applications

Sputtering Targets, Anodes and Pellets

LUVATA
Partnerships with a Promise

Copper, the hidden hero

The technology and communications that we now rely on would be impossible without copper. It is the hidden material in smart phones, smart tv's and computers. Copper film is critical to memory chips and processors, as well as being found in semiconductors and many other applications across a variety of industries.

Depositing these ultrathin films is a delicate business, and at Luvata we like to think we have it down to a fine art. We specialize in Physical Vapor Deposition (PVD) and electrochemical deposition. Our products include semi-finished plates, sputter targets, anodes, ingots and pellets, and we have the machinery and production flexibility to produce them in all shapes and sizes.

The Purest Copper for the Best Results

At Luvata we know that our targets and anodes are the best they can be because we use only the very purest copper, including oxygen-free copper. We produce our own proprietary high-purity copper, from only the best quality cathodes. With refining and fabrication under one roof, we have complete control over the quality and supply of raw materials, as well as the production process.

Tailor-made for any Application

Whether it is semi-finished products or the targets themselves, we work together with our customers to design the best solution for every single construction. Everything we do is tailor-made, ensuring the technical accuracy of each item.

At Luvata we have a reputation for high quality and consistent delivery. We pride ourselves on using the finest materials, and we believe our high purity copper is the very best available.

We supply a wide variety of customers, large and small. Our high purity products are instrumental in the creation of everyday electronics from mainframe computers to hand-held gaming devices, touchscreens and mobile telephones. They have a significant part to play in the digitalization and electrification of societies, two areas that are close to our heart.

As a global manufacturer, we recognize that we have a responsibility to the planet. We believe we can play a part in building a more sustainable future and bringing long-term benefits to people, society and the Earth.



President & CEO
Pekka Kleemola



Custom-built solutions for many different application

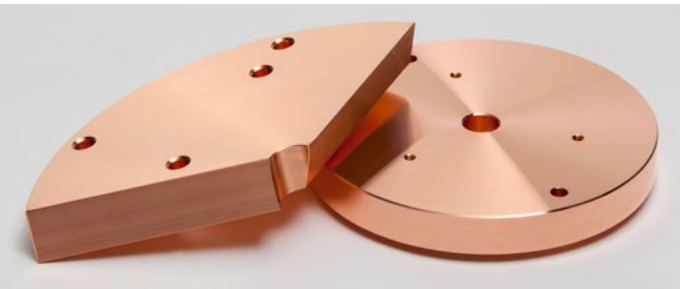
Many of our customers come to us with their own unique requirements and our designers and engineers work with them to develop custom-made solutions using a truly collaborative approach. We are happy to work from even the most basic initial brief, even a rudimentary hand-drawn sketch.



Our sputtering targets, anodes and pellets are used to coat electronic components and electronic instruments. This includes the electromagnetic shielding found inside a mobile phone shell as well as processors and memory chips. They are commonly used in producing copper components in touch-screen TVs and computer monitors, which use the highly conductive copper components as alternatives to the less conductive aluminum components used on smaller screens.

For cryogenic applications, we offer high purity copper, produced with min RRR value up to 2500, providing highest possible electrical and thermal conductivity. At cryogenic temperatures, the electrical and thermal properties of this copper are superior to any other copper grade. High purity of raw material alone is not a proof of high RRR value in copper. Also, the balance of the impurities is important, together with manufacturing process.

They are also used to create decorative glass coating. These are often seen on skyscrapers, where the glass has a dramatic, metallic color and can be adjusted to reflect the light in different ways.



Semi-finished products

Luvata is also a leading manufacturer of semi-finished products for all kinds of applications where high-quality copper is essential. We can produce customer-specific semi-finished products in all shapes and sizes, including bars, sheets, tubes and machined components. We can supply ingots in all the high-purity copper grades. Our range covers many copper based alloys such as copper phosphorous (CuP).

High-Purity Copper Grades

- Oxygen-Free Copper - 4N 99.99%
- Oxygen-Free Copper - 5N 99.999%
- Oxygen-Free Copper - 5N5 99.9995%
- Oxygen-Free Copper - 6N 99.9999%



Luvata - Partnerships with a Promise

Working for People, Society and the Earth

We all want to ensure a sustainable future for our planet. As a manufacturer, we know that we have both an opportunity and a responsibility to contribute positively to the changes needed to secure that future. We have stated that our vision is to be the leading provider of copper solutions that benefit people, society and the earth, and this is a serious commitment. We are active in markets such as e-mobility, healthcare, electrification and the green transition, all of which have a need for copper products. We believe that our innovations will help drive these markets forwards, making green solutions more easily accessible to all.

We also recognize the need for our operations to be sustainable. To this end, we are striving to reduce greenhouse gas emissions, aiming to be using 100% renewable electricity by 2035 and to be fully carbon neutral by 2045.

Helping our customers grow and thrive

We have always worked in partnership with our customers, getting to know their businesses and collaborating on custom-made solutions. We take great satisfaction in seeing our customers thrive, and knowing that we played a part in their success.

Where we believe we can make a real difference is in sharing our robust manufacturing capabilities, technology and material knowledge, and by using our unique expertise to develop technically-demanding products. Together with an emphasis on lean production, innovation and value-added solutions, we work hard to ensure that we are the partner of choice for our customers, every time.

Partnerships with a Promise

At Luvata, we deliver on our promises. We have pledged always to treat people with respect, keep an open mindset and work together with others.

Our global footprint stretches across four continents. Our diversity of locations, cultures and markets gives us access to a wealth of knowledge and expertise that continues to grow. It also means that we are local to our customers, wherever they are, so we can continue to forge the strong relationships we are known for.



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About Luvata

Luvata is a world leader in copper manufacturing and related engineering services. It brings together people, innovation and technology to create solutions in areas such as e-mobility, healthcare, and in electrification & the green transition. The company's success is driven by innovation, lean production and value-added sales, and its vision is to provide copper solutions which benefit people, society and the earth. Employing over 1,400 staff on four continents, Luvata works in partnership with customers such as ABB, CERN, and Siemens. Luvata is a group company of Mitsubishi Materials Corporation.



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