

SOFIA MED

More than Copper



COMPANY PROFILE





COPPER A JOURNEY THROUGH THE MILLENNIUMS

SOFIA MED

More than Copper

Sofia Med is a producer of a wide range of rolled and extruded copper and copper alloy products such as sheets, strips, plates, circles, disks, bare and plated copper bus bars, rods, profiles, components, fabricated parts and wire that are used in a wide variety of building and industrial applications.

Sofia Med is part of the ElvalHalcor Hellenic Copper and Aluminium industry S.A., a leading global manufacturer of aluminium and copper rolled and extrusion products.

Sofia Med is situated in Sofia, Bulgaria, on a 250 000 m² area and has three production units: Foundry, Rolling and Extrusion.

With more than 85 years of manufacturing experience and significant investments, **Sofia Med** has evolved into a competitive modern European company with customers globally.

Sofia Med operates under strict quality, environmental, as well as health and safety management systems, in compliance with ISO 9001:2015, IATF 16949:2016, ISO 14001, ISO 45001, ISO 50001:2018, as well as follows the guidelines of ISO 26000:2010 for social responsibility.

The wide product range of **Sofia Med** meets the requirements of the Unified European standards (EN), as well as BS, DIN, ASTM, JIS standards, or any other specific customer request.

1937

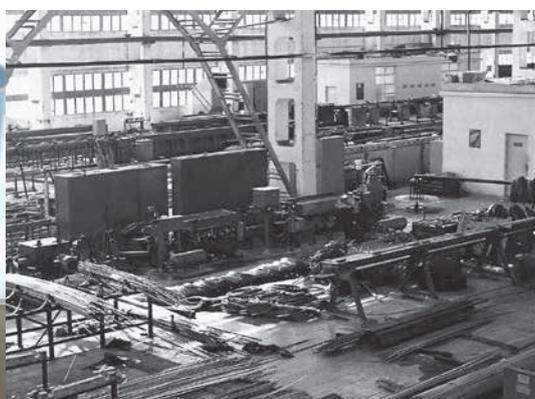
KOZM S.A., a plant for the processing of non-ferrous metals was established as a private company.

1947

The plant comes under government ownership.

Late 60's -1974

Modernization program.



2000

Halcor S.A. – Greece purchased the plant and established a new subsidiary under the name of **Sofia Med S.A.**
Full scale changes in the plant started for reaching capacity levels of up to 120 000 tns.

2000

Foundry and Extrusion units restarted operation

2004

Rolling unit restarted operation.

TODAY

Sofia Med is going through an extended investment program with new projects in all company spheres to target capacity of 140 000 tons.

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HISTORY



2000

INVESTMENTS

2022

A large investment program of over 215 million euros for the period 2000 - 2022 has been implemented.

With our experience of over 85 years and the sustainable investments in the latest technology and know-how, we have grown and developed into a competitive modern company. New projects are currently ongoing, which give us the opportunity to further expand our product range and improve our quality and capabilities.





PRODUCTION FACILITIES

Sofia Med S.A. has three production units: foundry, rolling and extrusion.

They occupy over half of a 250 000 m² site area, out of which 120 000 m² are with industrial buildings.





FOUNDRY

Semi-continuous casting of copper, brass and special alloys.
Continuous casting of copper rod.
Fire refining.





ROLLING MILL

Copper, brass and HP alloys in sheets, strips, and plates for construction (roofing, gutters), electrical engineering (connectors, transformers, boilers, etc.), decoration.

COPPER

Cu ALLOYS: DHP, Cu-SE, Cu-ETP, DLP, CuFe0,10; CuSn0,15, CuNiSi, CuFeP, CuFe2P

STRIPS

in coils on pallets with max. 14 kg/mm width

Thickness	0,075 - 5 mm
Width	8 - 1250 mm

SHEETS

in wooden pallets of 500 – 2000 kg

Thickness	0,20 - 5 mm
Width	100 - 1250 mm
Length	400 - 3500 mm

CIRCLES

Thickness	0,27 - 2,5 mm
Diameter	50 - 1200 mm

DISCS

Thickness	6 - 30 mm
Diameter	40 - 280 mm

PLATES

Thickness	8 - 180 mm
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BRASS

Standard alloys: CuZn40-CuZn38, CuZn36, CuZn37-CuZn35-CuZn30, CuZn10-CuZn15, CuZn0,5 (Naval, Admiral and Standard Brass)
Coinage alloys in strips: upon request.

STRIPS

on pallets with max. 11 kg/mm width

Thickness	0,10 - 5 mm
Width	8 - 1250 mm
CID	80 - 500 mm

CIRCLES

Thickness	0,27 - 2,5 mm
Diameter	50 - 1200 mm

SHEETS

on wooden pallets of 500 – 2000kg

Thickness	0,20 - 5 mm
Width	100 - 1250 mm
Length	400 - 3500 mm

DISCS

Thickness	6 - 30 mm
Diameter	40 - 280 mm

PLATES

Thickness	10 - 180 mm
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Width over 1000 mm up to 1250 mm can be produced upon agreement

SPECIAL ALLOYS

High performance alloys CuNi1,5Si, CuNi2Si, CuNi2SiSn, CuNi3SiMg, CuFe2. Other alloys: upon request.

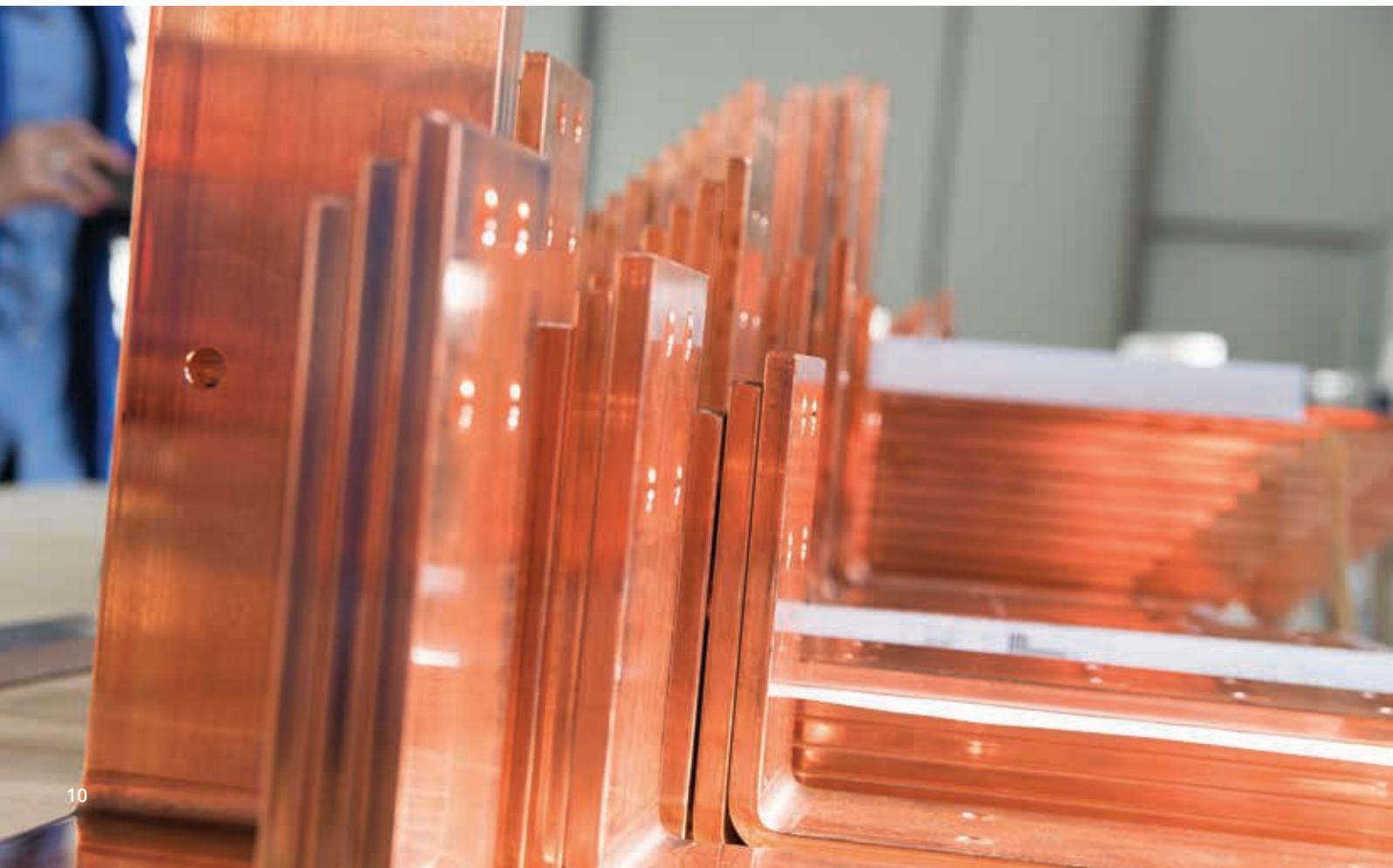
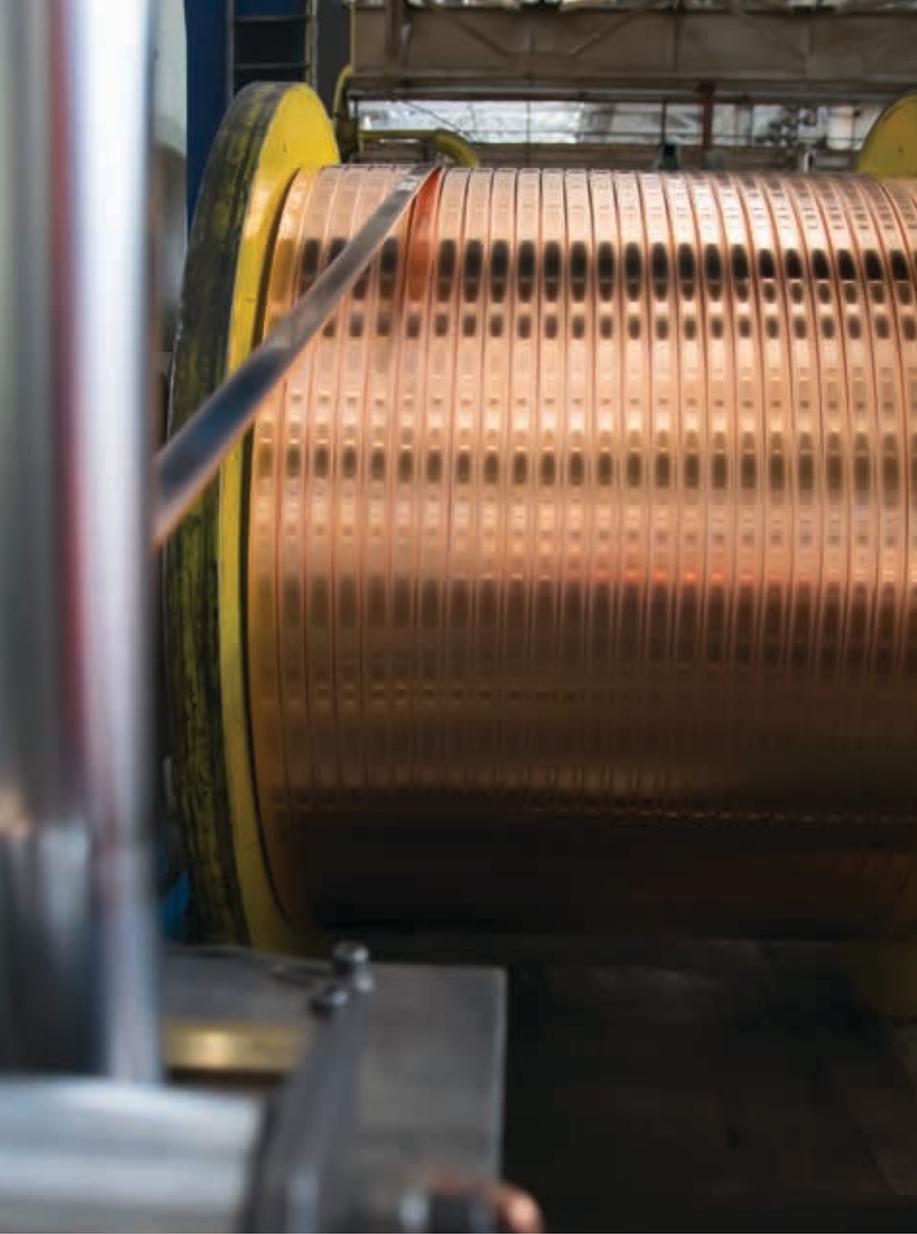
STRIPS

Thickness	0,8 - 4 mm
Width	8 - 720 mm

APPLICATIONS

Rolled products are used in a wide variety of industrial applications, such as: automotive, e-mobility, connectors, for the production of parts for heat exchangers in air-conditioning, windmills, refrigerators, hot water boilers, electrical appliances, transformers, solar systems, radiators; they are also suitable for the manufacturing of cable wrapping, high-frequency cables, stamping of coins, deep drawing quality, clothes' buttons, air ducts, gutter supports, as well as for various decoration items. In addition, they are used for architectural purposes, roofing and facade covering.





EXTRUSION MILL

Extruded bare and electroplated copper products after extrusion and drawing processes:

Round rods	5 - 160 mm
Square rods	5 - 100 mm
Hexagon rods	5 - 100 mm
Profiles	("L", and others upon drawing)
Flat bars	Thickness: 3 - 50 mm Width: 10 - 250 mm
Rod	8 - 16 mm
Components	Thickness: 2 - 15 mm Width: 10 - 160 mm
CNC Bending	Width of bus bars: 10 - 160 mm Thickness of bus bars: 3 - 15 mm Max. bending radius: 15 mm
CNC Punching	Width of bus bars: 10 - 160 mm Thickness of bus bars: 3 - 15 mm
CNC milling machine	Working area: 600 x 1200 mm 24 tool holder
Tin and silver surface plating of bus bars and components	upon request

APPLICATIONS

Extruded products are used in electrical and mechanical engineering equipment, switchgear manufacturing (low and medium voltage), power distribution systems, automotive, earthing, for the production of gutter supports.





ANTIMICROBIAL COPPER

ANTIMICROBIAL COPPER AND THE BRAND

Now there is a new weapon in the fight against the microbes that cause these deadly infections: Antimicrobial Copper.

With broad-spectrum and rapid efficacy, Antimicrobial Copper has been shown to kill pathogenic microbes in the laboratory and the clinical environment, significantly and continuously reducing bacteria. With recent clinical trial data showing key touch surfaces made from Antimicrobial Copper can reduce a patient's risk of acquiring an HCAI, it has been shown that these antimicrobial products, as part of contemporary hospital architecture and design, can improve infection prevention and control in hospitals. Antimicrobial Copper is the only solid metal touch surface to have efficacy data independently verified through a US Environmental Protection Agency (EPA) registration, which supports its claim to continuously kill more than 99.9% of the bacteria* that cause HCAs, within two hours of contact.

The supporting science has proven Antimicrobial Copper to be the most effective antimicrobial touch surface and has sparked a global campaign advocating the use of these materials to combat infectious microbes in healthcare facilities, mass transit, educational institutions and beyond.

Sofia Med has been approved by the Hellenic Copper Development Institute for the use of the brand



CopperHealth. in its capacity of a producer of registered antimicrobial copper and copper alloys, as well as semi-finished products, suitable to cover or replace any touch surface item, aiming to reduce the microbial flora on these.

**Laboratory testing shows that, when cleaned regularly, antimicrobial copper surfaces kill greater than 99.9% of the following bacteria within 2 hours of exposure: MRSA, VRE, Staphylococcus aureus, Enterobacter aerogenes, Pseudomonas aeruginosa, and E. coli O157:H7. Antimicrobial copper surfaces are a supplement to and not a substitute for standard infection control practices and have been shown to reduce microbial contamination, but do not necessarily prevent cross contamination or infections; users must continue to follow all current infection control practices.*

CHARACTERISTICS

Continuously kills microbes

Efficacy as an antimicrobial is scientifically proven to be far more effective than silver-containing coatings
Proven to continuously kill the microbes that cause infections
The only solid antimicrobial touch surface approved by the US Environmental Protection Agency (EPA).

Never wears out

Continuous and ongoing antimicrobial action.
Remains effective even after repeated wet and dry abrasion and re-contamination.
Natural oxidation does not impair efficacy.

Safe to use

Not harmful to people or the environment
Inherently antimicrobial, no chemicals added
Completely recyclable.

THE WORLD'S MOST EFFECTIVE ANTIMICROBIAL TOUCH SURFACE MATERIAL

CopperHealth **AND ARCHITECTURE**

Copper and copper alloys are engineering materials that are durable, colourful and recyclable and are widely available in various product forms suitable for a range of manufacturing purposes. Copper and its alloys offer a suite of materials for designers of functional, sustainable and cost-effective products.

Copper and certain copper alloys have intrinsic antimicrobial properties (so-called 'Antimicrobial Copper') and products made from these materials have an additional, secondary benefit of contributing to hygienic design. Products made from Antimicrobial Copper are a supplement to, not a substitute for standard infection control practices. It is essential that current hygiene practices are continued, including those related to the cleaning and disinfection of environmental surfaces.

Sofia Med produces a wide range of copper and copper alloy sheets, coils, strips and flats with the mark



CopperHealth, which possess the antimicrobial efficacy necessary for their applications in:

Schools and public buildings
Medical sector and health care
Public transport and mass transit facilities
Hotels
Elevators
Sports facilities and items
Food and hospitality
Heating, Ventilation and Air Conditioning

ANTIMICROBIAL COPPER TOUCH SURFACES

Antimicrobial Copper alloy surfaces must not be waxed, painted, lacquered, varnished, or otherwise coated.

The alloys oxidise to varying degrees, which does not impair their antimicrobial efficacy. By replacing fixtures, fittings and other touch surfaces with Antimicrobial Copper you can continuously kill pathogenic microbes, providing an additional weapon in the fight against healthcare-associated infections.



HEALTH CARE AND SUPREME ELEGANCE IN MODERN ARCHITECTURE AND FACILITIES

www.antimicrobialcopper.org

R&D. THE SPIRIT OF INNOVATION

Alongside the various improvement projects, **Sofia Med** is continuously investing resources in research and development of new products that fulfill market and customer needs.

- In-service failures and defect analysis, for the supplied metallic products.
- Resolving metallurgical problems evolved before or during production, in an effort to improve product quality.
- Perform basic research on advanced metallurgical projects.
- Study techniques and efficiencies on recycling technology.

Sofia Med benefits from the available support of ELKEME in developing and testing new products. Elkeme is a state-of-the-art centre for metals research and development.



SUSTAINABLE DEVELOPMENT

Sofia Med is committed to sustainable development by a number of ongoing activities, structured in a solid ESG roadmap with focus on health and safety, energy efficiency, carbon footprint, as well as supply chain. More specifically, our continuous efforts and investments are in:

Improvement of the working conditions

- Improvement of the energy efficiency
- Reduction of the carbon footprint
- Optimization of the water consumption
- Increase of the use of recycled material

Improvement of the processes of purification of waste gases and waste water

- Improvement of the waste storage infrastructure
- Transition to electromobility and reduction of our direct carbon footprint
- Assessment of the supply chain on sustainability topics to ensure compliance

ISO 26000:2010

Sofia Med conforms to the ISO 26000:2010 guidelines on Social Responsibility. In particular, the company holds a Letter of Conformity by an independent international certification body for complying to the core guidelines of the following seven thematic sections of the ISO 26000:2010: corporate governance, consumer issues, human rights, employment practices, fair operating practices, environmental protection, cooperation with local communities.

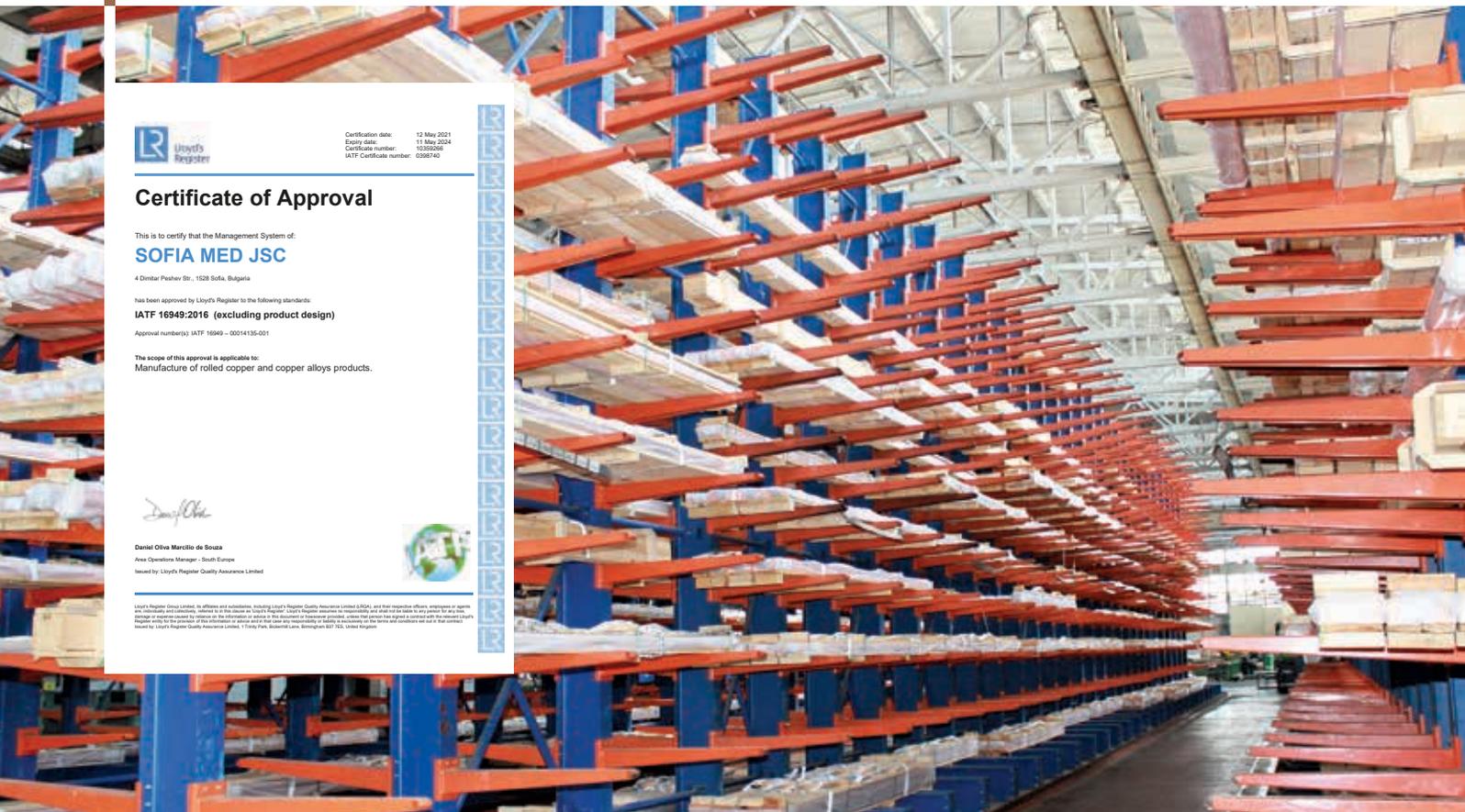


CARE FOR OUR PEOPLE. HEALTH AND SAFETY

Sofia Med S.A. has a Health and Safety Management System, which is certified according to the international standard ISO 45001. We are committed to improve health and safety by extensive training and awareness programs.

The company has developed an extensive "Investment in People" program, which focuses on the continuous development and training of company personnel.

Sofia Med collaborates with state institutions, technical high schools and universities. Scholarships and in-house training are available to students and university graduates.



 Certification date: 12 May 2021
Expiry date: 11 May 2024
Certificate number: 153529266
IATF Certificate number: 0288240

Certificate of Approval

This is to certify that the Management System of:
SOFIA MED JSC
4 Dimitar Pashov Str., 1528 Sofia, Bulgaria

has been approved by Lloyd's Register to the following standards:
IATF 16949:2016 (excluding product design)
Approval number(s): IATF 16949 - 02014135-001

The scope of this approval is applicable to:
Manufacture of rolled copper and copper alloys products.


Daniel Olive
Area Operations Manager - South Europe
Issued by: Lloyd's Register Quality Assurance Limited



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Sofia Med has an integrated Quality Management System that is applied systematically throughout its organization ensuring that the highest quality standards and client's specific requirements are met.

The company is certified to ISO 9001:2015 and IATF 16949:2016 standards and is able to meet the production requirements in compliance to either of the standards EN, BS, DIN, ASTM and JIS, as well as other national standards and specific customer demands.

QUALITY

ENVIRONMENT

Sofia Med has an Environmental Management System, which is certified according to the international standard ISO 14001:2015.

In the recent years, a number of investments in various technologies have allowed the company to increase further the use of recycled materials.



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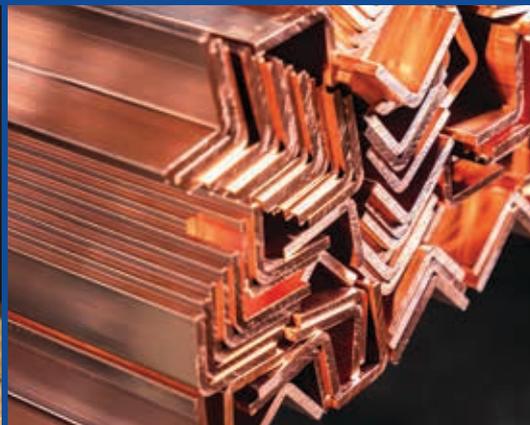
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