

PRODUCT
CATALOG
Strips & Sheets

24

Uba
lebronze alloys



About Lebronze alloys

Lebronze alloys is a world leader in the **development** and **fully integrated production** of **high-performance copper and nickel alloys**.

Thanks to a multidisciplinary know-how, the Group provides **innovative solutions to all major industries** such as Aeronautics, Electronics, Space, Automotive, Energy, among others.

Our 6 production facilities and 750 employees manage a **unique range of metal processing technologies**: continuous and semi-continuous casting, extrusion, hot and cold rolling, drawing, open-die forging, hot stamping, closed-die forging, cold forming, machining, non-destructive testing, etc.

The Group's commitment is to find appropriate and **optimized solutions for every sector's requirements while optimizing the environmental impact of our products**.

High
performance
copper and nickel
alloys

Fully
integrated
production
process

Optimized
environmental
impact of our
products

KEY FIGURES

- 6 production sites
- 3 service centers
- 750 employees
- 200 + alloys produced
- 288 M€ turnover

History of the Group

2006

The DUMONT family, some private investors as well as some key managers, take over "Le Bronze Industriel", a company founded in France in 1934 specializing in copper alloys production. This change of ownerships, with Michel DUMONT as active Chairman, marked a new period of strategic growth for the company.

2012-2016

Period of massive external growth for the company. Several major acquisitions are made such as Inoforges, Swissmetal Lüdenscheid and CLAL. These acquisitions consolidated our metallurgical expertise through a sharing of experience.

2016

Le Bronze Industriel officially becomes Lebronze alloys. It has been 10 years since the buyout and the Group has now tripled its sales.

2020

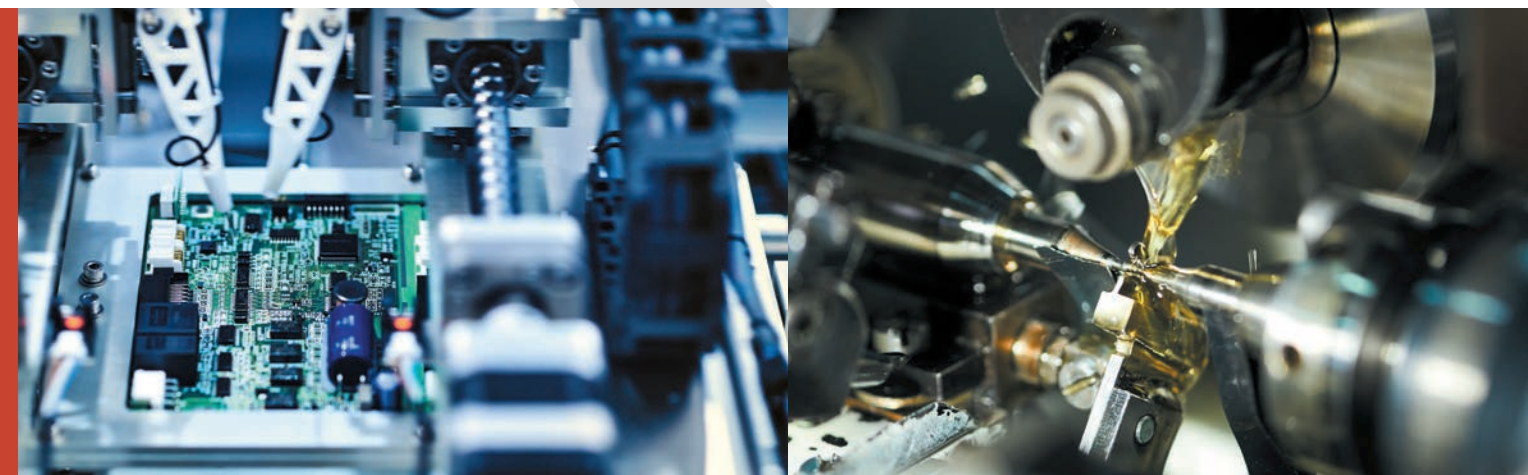
Opening of our first service center in Europe at Aldridge (UK). This service center joins an already well-established network of distributor partners around the globe and enables us to provide a greater responsiveness to our customers' needs.

2022

Marks the end of a 2-years industrial repositioning allowing the Group to focus on high added value materials.

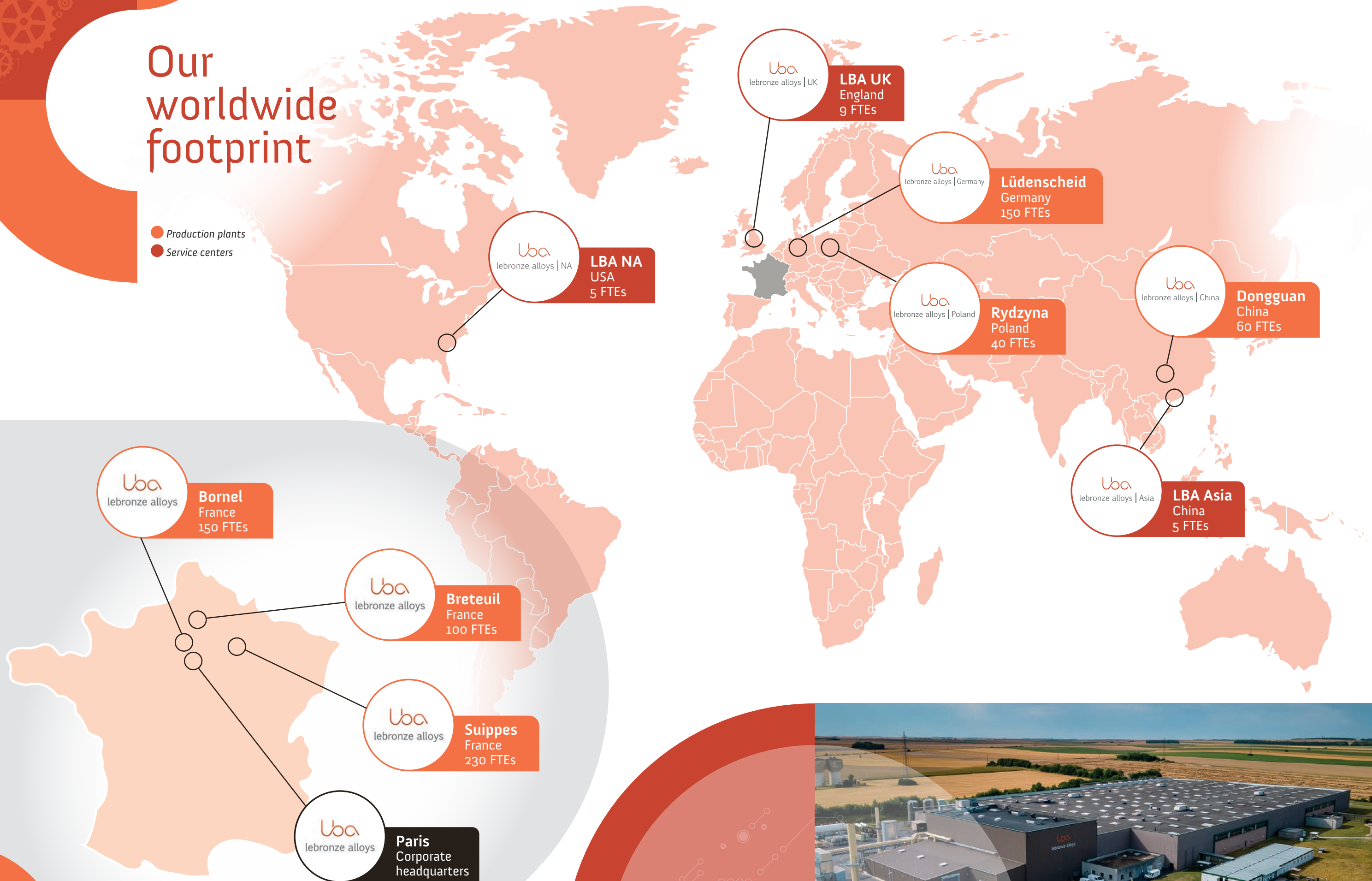
2023

The Group counts over 750 employees, 6 production sites and 3 service centers around the world and generates 288 M€ of sales.



Our worldwide footprint

- Production plants
- Service centers



Product range at a glance

Lebronze alloys offers **more than 200 copper-based and nickel-based alloys** with unique properties which meet the most complex requirements. We supply these alloys in different forms :



Billets



Bars



Hollow bars



Strips



Sheets



Rods



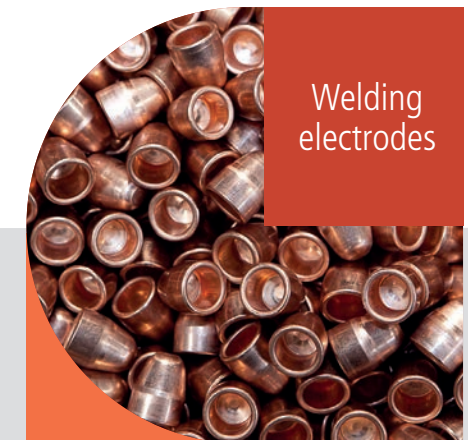
Wires



Standard & complex profiles



Plates



Welding electrodes



Marine tubes & fitting



Machined blanks and parts

A fully integrated production process

One of the Group's major strengths relies in its **fully integrated production process**, from smelting to machining and recycling.

This particularity guarantees a traceability, optimization and strict control of the final properties of our materials so they can suit to the most stringent requirements.

Melting & Casting

- Continuous wire casting
- Continuous bar casting
- Semi-continuous casting

Hot forming

- Extrusion
- Hot rolling
- Free forging
- Hot stamping

Cold forming

- Cold rolling
- Drawing straightening
- Cold stamping
- Heat treatments

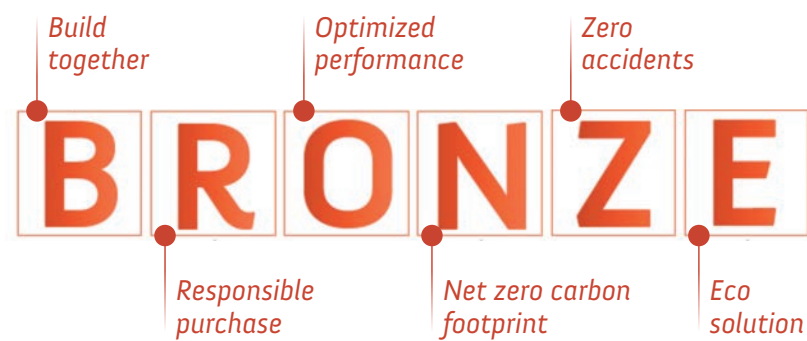
Finishing

- Machining
- Servicing
- Scrap recovery

Our sustainable development policy

To ensure the sustainability of our business, it is essential to strike the **right balance between economic performance, social impact and environmental impact.**

This balance within the Group is structured around our **6 "Bronze" pillars.** Each pillar is broken down into actions and indicators that enable us to be part of a dynamic of continuous progress and sustainability.



Build together: this pillar covers social initiatives that have a positive impact on gender, sex and age equality, as well as projects that improve the well-being of our teams at work.

Responsible purchase: purchases represent more than 50% of Group sales. It is therefore essential that we implement a responsible purchasing policy and tighten up our requirements of our suppliers.

Optimised performance: the Company's economic, industrial and environmental performance is a key factor in meeting the expectations of our relevant stakeholders.

Net zero carbon footprint: taking into account the major challenge of decarbonation, we have decided to make this a specific pillar and to build a path that meets the transformation of the Climate Act and the Paris Agreement.

Zero accidents: our processes require constant vigilance. We are taking action to anticipate and reduce the risk of accidents as far as possible.

Eco solution: by working in collaboration with our customers and bringing innovations to the market, we are contributing to a more sustainable approach by improving the life cycle of products.

Quality

Lebronze alloys develops for all its activities a formally recognized quality management system which allow to:

- guarantee the traceability of our products, from raw material to the product delivered
- certify our products properties
- control our delivery times

Our state-of-the-art quality checks equipment include:

- **Metallurgical tests** such as traction, resilience, hardness, bending and others
- **Non destructive tests** such as Magnetic Particle Inspection (MPI), ultrasonic contact testing, liquid penetrant Inspection and others
- **Metrology, geometry and surface tests** such as surface metrology, global DEA, profile projectors and others



Our certifications

All our certificates can be consulted on our website

Aerospace certifications



Certified site: Suippes



Heat treating



Certified service center:
Lebronze alloys UK

General certifications



Certified sites: Bornel, Breteuil, Lüdenscheld, Suippes, Rydzyna.



Certified sites: Breteuil, Suippes, Rydzyna.



Certified sites: Lüdenscheld and Suippes.

CuNi alloys

Resistance alloys

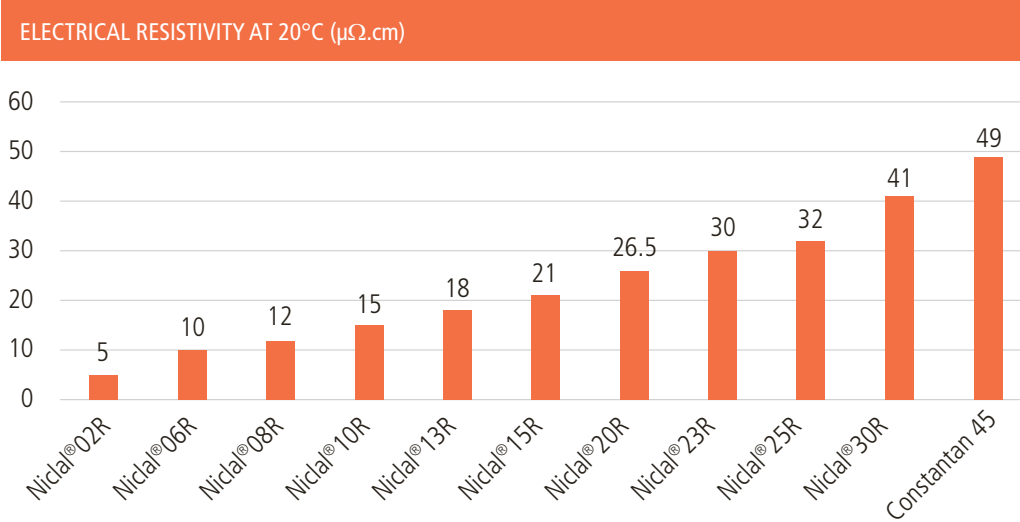
Precision of electrical properties

Our Group offers a wide range of copper-nickel alloys **used for resistance applications**. These alloys are characterized by **highly precise electrical properties** and used as **heating elements** for various applications (ex: mineral insulated cables, household appliances, electrical devices), **bimetallic contacts** or coinage that **require controlled resistivity**. Our wide range of CuNi alloys makes us one of the **major actors on this market** and allows us to meet the challenging requirements of a large portfolio of customers.

PRODUCT PORTFOLIO		
Alloy	ISO	UNS
Nical® 02R	CuNi ₂	NA
Nical® 06R	CuNi ₆	NA
Nical® 08R	CuNi ₈	NA
Nical® 10R	CuNi ₁₀	NA
Nical® 13R	CuNi ₁₃	NA
Nical® 15R	CuNi ₁₅	NA
Nical® 20R	CuNi ₂₀	C71000
Nical® 23R	CuNi ₂₃ MnFe	NA
Nical® 25R	CuNi ₂₅	C71300
Nical® 30R	CuNi ₃₀	NA
Constantan 45	CuNi ₄₄ Mn ₁	NA

STANDARD CAPABILITY			
Format	Thickness	Width	Length
Strips	0.08 - 3.5 mm	3 - 380 mm	NA
Sheets	0.25 - 3.5 mm	20 - 380 mm*	500 - 3000 mm*

*Dimensions outside this range on request



Our standard range of resistance CuNi alloys cover a large range of electrical resistivity from **5 μΩ.cm** to **49 μΩ.cm**.



ESG Performance

We aim to offer our Customers products with the leading grade of environmental footprint. To achieve this, we make major investments in innovative processes aiming to optimize energy and water consumption and increasing the use of recycled raw materials. More specifically, we have developed state-of-the-art recycling know-how based on specialized purchasers for sourcing end of life materials to be processed in our Group Upcycling Workshop. Another key aspect of our ESG strategy is to offer substitutes for alloys that are not REACH and RoHS compliant.

- Our CuNi alloys are :
- RoHS and REACH compliant
 - Mainly produced from recycled raw materials



Markets and applications

Electronics

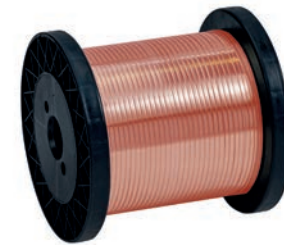
- Bi-metallic contacts
- Heating component for circuit breaker

Energy

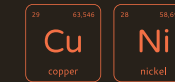
- Heating strips
- Mineral insulated cables

Other

- Currencies and tokens with highly controlled resistivity



Niclal® 02R CuNi₂



Niclal® 02R is a resistive Copper-Nickel (CuNi₂) alloy designed and produced by Lebronze alloys. It exhibits high precision of resistivity, even at high temperatures. This alloy is compliant with ASTM B267 standard in terms of resistivity and temperature coefficient of electrical resistance.

MATERIAL DESIGNATION

ISO	UNS	Others
CuNi ₂	NA	DIN 17471 n°2.0802

CHEMICAL COMPOSITION

Cu	Ni
Balance	2%

PHYSICAL PROPERTIES

General properties	
Density at 20 °C	8.9 g/cm³
Thermal conductivity	140 W/m.°C
Coefficient of thermal expansion from 20 to 200 °C	17.7 x 10 ⁻⁶ /°C
Melting point	1090 °C
Corrosion resistance	★★★★★
Modulus of elasticity	118 GPa
Electrical properties	
Resistivity at 20°C	5 µΩ.cm
Typical temperature coefficient of electrical resistance from +25 to +105°C	1100 - 1700 ppm/°C
Resistivity deviation	3σ = 5%

TYPICAL APPLICATIONS

Bi-metallic contacts
Heating component for circuit breaker
Heating strips
Mineral insulated cables
Currencies and tokens with highly controlled resistivity

COMPATIBLE DOWNSTREAM PROCESS

Welding
Plating
Forming

KEY FEATURES

High precision of resistivity

OTHER AVAILABLE FORMS

Rods
Wire

STANDARD CAPABILITY

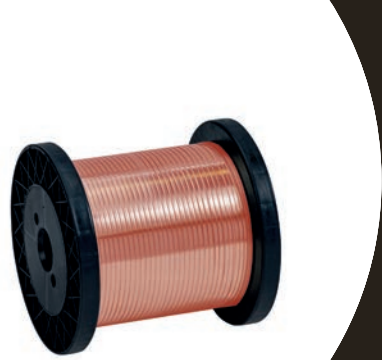
Format	Thickness	Width	Length
Strips	0.08 - 3.5 mm	3 - 380 mm	NA
Sheets	0.25 - 3.5 mm	20 - 380 mm*	500 - 3000 mm*

*Dimensions outside this range on request

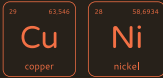
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We also produce high quality machined blanks and parts.

To know more, visit:
www.lebronze-alloys.com



Niclal® 06R
CuNi₆



Niclal® 06R is a resistive Copper-Nickel (CuNi₆) alloy designed and produced by Lebronze alloys. It exhibits high precision of resistivity, even at high temperatures, as well as fair corrosion resistance. This alloy is compliant with ASTM B267 standard in terms of resistivity and temperature coefficient of electrical resistance.

MATERIAL DESIGNATION

ISO	UNS	Others
CuNi ₆	NA	DIN 17471 n°2.0807

CHEMICAL COMPOSITION

Cu	Ni
Balance	6%

PHYSICAL PROPERTIES

General properties	
Density at 20 °C	8.9 g/cm³
Thermal conductivity	66 W/m.°C
Coefficient of thermal expansion from 20 to 200 °C	17.4 x 10 ⁻⁶ /°C
Melting point	1095 °C
Corrosion resistance	★★★★★
Modulus of elasticity	120 GPa
Electrical properties	
Resistivity at 20°C	10 μΩ.cm
Typical temperature coefficient of electrical resistance from +25 to +105°C	500 - 900 ppm/°C
Resistivity deviation	3σ = 5%

TYPICAL APPLICATIONS

Bi-metallic contacts
Heating componentfor circuit breaker
Heating strips
Mineral insulated cables
Currencies and tokens with highly controlled resistivity

COMPATIBLE DOWNSTREAM PROCESS

Welding
Plating
Forming

KEY FEATURES

High precision of resistivity
Fair corrosion resistance

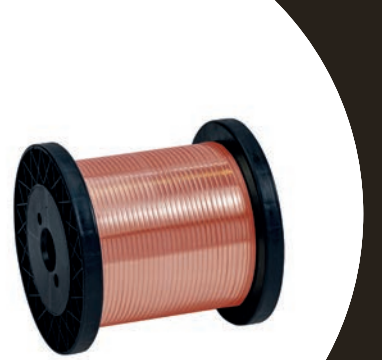
OTHER AVAILABLE FORMS

Rods
Wire

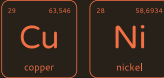
STANDARD CAPABILITY

Format	Thickness	Width	Length
Strips	0.08 - 3.5 mm	3 - 380 mm	NA
Sheets	0.25 - 3.5 mm	20 - 380 mm*	500 - 3000 mm*

*Dimensions outside this range on request



Niclal® 08R
CuNi₈



Niclal® 08R is a resistive Copper-Nickel (CuNi₈) alloy designed and produced by Lebronze alloys. It exhibits high precision of resistivity, even at high temperatures, as well as fair corrosion resistance.

MATERIAL DESIGNATION

ISO	UNS	Others
CuNi ₈	NA	NA

CHEMICAL COMPOSITION

Cu	Ni
Balance	8%

PHYSICAL PROPERTIES

General properties	
Density at 20 °C	8.9 g/cm³
Thermal conductivity	57 W/m.°C
Coefficient of thermal expansion from 20 to 200 °C	17.3 x 10 ⁻⁶ /°C
Corrosion resistance	★★★★★
Modulus of elasticity	124 GPa
Specific heat capacity	0.38 J/g.°C
Electrical properties	
Resistivity at 20°C	12 μΩ.cm
Resistivity deviation	3σ = 5%

TYPICAL APPLICATIONS

Bi-metallic contacts
Heating componentfor circuit breaker
Heating strips
Mineral insulated cables
Currencies and tokens with highly controlled resistivity

COMPATIBLE DOWNSTREAM PROCESS

Welding
Plating
Forming

KEY FEATURES

High precision of resistivity
Fair corrosion resistance

OTHER AVAILABLE FORMS

Rods
Wire

STANDARD CAPABILITY

Format	Thickness	Width	Length
Strips	0.08 - 3.5 mm	3 - 380 mm	NA
Sheets	0.25 - 3.5 mm	20 - 380 mm*	500 - 3000 mm*

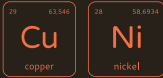
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Niclal® 10R

CuNi₁₀



Niclal® 10R is a resistive Copper-Nickel (CuNi₁₀) alloy designed and produced by Lebronze alloys. It exhibits high precision of resistivity, even at high temperatures, as well as good corrosion resistance. This alloy is compliant with ASTM B267 standard in terms of resistivity and temperature coefficient of electrical resistance.

MATERIAL DESIGNATION

ISO	UNS	Others
CuNi ₁₀	NA	DIN 17471 n°2.0811

CHEMICAL COMPOSITION

Cu	Ni
Balance	10%

PHYSICAL PROPERTIES

General properties	
Density at 20 °C	8.9 g/cm³
Thermal conductivity	50 W/m.°C
Coefficient of thermal expansion from 20 to 200 °C	17.1 x 10 ⁻⁶ /°C
Melting point	1100 °C
Corrosion resistance	★★★★★
Modulus of elasticity	126 GPa
Specific heat capacity	0.38 J/g.°C
Electrical properties	
Resistivity at 20°C	15 μΩ.cm
Typical temperature coefficient of electrical resistance from +25 to +105°C	400 - 500 ppm/°C
Resistivity deviation	3σ = 5%

STANDARD CAPABILITY

Format	Thickness	Width	Length
Strips	0.08 - 3.5 mm	3 - 380 mm	NA
Sheets	0.25 - 3.5 mm	20 - 380 mm*	500 - 3000 mm*

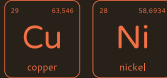
*Dimensions outside this range on request

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Niclal® 13R

CuNi₁₃



Niclal® 13R is a resistive Copper-Nickel (CuNi₁₃) alloy designed and produced by Lebronze alloys. It exhibits high precision of resistivity, even at high temperatures, as well as good corrosion resistance.

MATERIAL DESIGNATION

ISO	UNS	Others
CuNi ₁₃	NA	NA

CHEMICAL COMPOSITION

Cu	Ni
Balance	13%

PHYSICAL PROPERTIES

General properties	
Density at 20 °C	8.9 g/cm³
Thermal conductivity	45 W/m.°C
Coefficient of thermal expansion from 20 to 200 °C	16.9 x 10 ⁻⁶ /°C
Corrosion resistance	★★★★★
Modulus of elasticity	140 GPa
Specific heat capacity	0.38 J/g.°C
Electrical properties	
Resistivity at 20°C	18 μΩ.cm
Resistivity deviation	3σ = 5%

STANDARD CAPABILITY

Format	Thickness	Width	Length
Strips	0.08 - 3.5 mm	3 - 380 mm	NA
Sheets	0.25 - 3.5 mm	20 - 380 mm*	500 - 3000 mm*

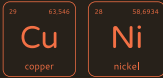
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Niclal® 15R

CuNi₁₅



Niclal® 15R is a resistive Copper-Nickel (CuNi₁₅) alloy designed and produced by Lebronze alloys. It exhibits high precision of resistivity, even at high temperatures, as well as good corrosion resistance.

MATERIAL DESIGNATION

ISO	UNS	Others
CuNi ₁₅	NA	NA

CHEMICAL COMPOSITION

Cu	Ni
Balance	15%

PHYSICAL PROPERTIES

General properties	
Density at 20 °C	8.9 g/cm³
Thermal conductivity	43 W/m.°C
Coefficient of thermal expansion from 20 to 200 °C	16.5 x 10 ⁻⁶ /°C
Corrosion resistance	★★★★★
Modulus of elasticity	142 GPa
Electrical properties	
Resistivity at 20°C	21 µΩ.cm
Resistivity deviation	3σ = 5%

TYPICAL APPLICATIONS

Bi-metallic contacts
Heating componentfor circuit breaker
Heating strips
Mineral insulated cables
Currencies and tokens with highly controlled resistivity

COMPATIBLE DOWNSTREAM PROCESS

Welding
Plating
Forming

KEY FEATURES

High precision of resistivity
Good corrosion resistance

OTHER AVAILABLE FORMS

Rods
Wire

STANDARD CAPABILITY

Format	Thickness	Width	Length
Strips	0.08 - 3.5 mm	3 - 380 mm	NA
Sheets	0.25 - 3.5 mm	20 - 380 mm*	500 - 3000 mm*

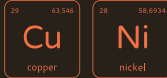
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Niclal® 20R

CuNi₂₀



Niclal® 20R is a resistive Copper-Nickel (CuNi₂₀) alloy designed and produced by Lebronze alloys. It exhibits high precision of resistivity, even at high temperatures, as well as good corrosion resistance.

MATERIAL DESIGNATION

ISO	UNS	Others
CuNi ₂₀	C71000	NA

CHEMICAL COMPOSITION

Cu	Ni
Balance	20%

PHYSICAL PROPERTIES

General properties	
Density at 20 °C	8.9 g/cm³
Thermal conductivity	37.7 W/m.°C
Coefficient of thermal expansion from 20 to 200 °C	16.4 x 10 ⁻⁶ /°C
Corrosion resistance	★★★★★
Modulus of elasticity	144 GPa
Specific heat capacity	0.38 J/g.°C
Electrical properties	
Resistivity at 20°C	26.5 µΩ.cm
Resistivity deviation	3σ = 5%

TYPICAL APPLICATIONS

Bi-metallic contacts
Heating componentfor circuit breaker
Heating strips
Mineral insulated cables
Currencies and tokens with highly controlled resistivity

COMPATIBLE DOWNSTREAM PROCESS

Welding
Plating
Forming

KEY FEATURES

High precision of resistivity
Good corrosion resistance

OTHER AVAILABLE FORMS

Rods
Wire

STANDARD CAPABILITY

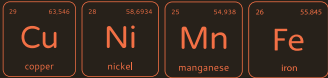
Format	Thickness	Width	Length
Strips	0.08 - 3.5 mm	3 - 380 mm	NA
Sheets	0.25 - 3.5 mm	20 - 380 mm*	500 - 3000 mm*

*Dimensions outside this range on request

Disclaimer : Data for information only, non-contractual



Niclal® 23R
CuNi₂₃MnFe



Niclal® 23R is a resistive Copper-Nickel (CuNi₂₃MnFe) alloy designed and produced by Lebronze alloys. It exhibits high precision of resistivity, even at high temperatures, as well as good corrosion resistance. This alloy is compliant with ASTM B267 standard in terms of resistivity and temperature coefficient of electrical resistance.

MATERIAL DESIGNATION

ISO	UNS	Others
CuNi ₂₃ MnFe	NA	DIN 17471 n°2.0881

CHEMICAL COMPOSITION

Cu	Ni	Mn
Balance	23%	1%

PHYSICAL PROPERTIES

General properties	
Density at 20 °C	8.9 g/cm³
Thermal conductivity	35 W/m.°C
Coefficient of thermal expansion from 20 to 200 °C	16.3 x 10 ⁻⁶ /°C
Melting point	1150 °C
Corrosion resistance	★★★★★
Modulus of elasticity	145 GPa
Electrical properties	
Resistivity at 20°C	30 μΩ.cm
Typical temperature coefficient of electrical resistance from +25 to +105°C	150 - 210 ppm/°C
Resistivity deviation	3σ = 5%

TYPICAL APPLICATIONS

- Bi-metallic contacts
- Heating componentfor circuit breaker
- Heating strips
- Mineral insulated cables
- Currencies and tokens with highly controlled resistivity

COMPATIBLE DOWNSTREAM PROCESS

- Welding
- Plating
- Forming

KEY FEATURES

- High precision of resistivity
- Good corrosion resistance

OTHER AVAILABLE FORMS

- Rods
- Wire

STANDARD CAPABILITY

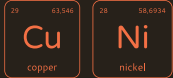
Format	Thickness	Width	Length
Strips	0.08 - 3.5 mm	3 - 380 mm	NA
Sheets	0.25 - 3.5 mm	20 - 380 mm*	500 - 3000 mm*

*Dimensions outside this range on request

Disclaimer : Data for information only, non-contractual



Niclal® 25R
CuNi₂₅



Niclal® 25R is a resistive Copper-Nickel (CuNi₂₅) alloy designed and produced by Lebronze alloys. It exhibits high precision of resistivity, even at high temperatures, as well as good corrosion resistance. This alloy is compliant with ASTM B267 standard in terms of resistivity and temperature coefficient of electrical resistance.

MATERIAL DESIGNATION

ISO	UNS	Others
CuNi ₂₅	C71300	CW350H

CHEMICAL COMPOSITION

Cu	Ni
Balance	25%

PHYSICAL PROPERTIES

General properties	
Density at 20 °C	8.9 g/cm³
Thermal conductivity	33 W/m.°C
Coefficient of thermal expansion from 20 to 200 °C	16.3 x 10 ⁻⁶ /°C
Corrosion resistance	★★★★★
Modulus of elasticity	150 GPa
Specific heat capacity	0.38 J/g.°C
Electrical properties	
Resistivity at 20°C	32 μΩ.cm
Resistivity deviation	3σ = 5%

TYPICAL APPLICATIONS

- Bi-metallic contacts
- Heating componentfor circuit breaker
- Heating strips
- Mineral insulated cables
- Currencies and tokens with highly controlled resistivity

COMPATIBLE DOWNSTREAM PROCESS

- Welding
- Plating
- Forming

KEY FEATURES

- High precision of resistivity
- Good corrosion resistance

OTHER AVAILABLE FORMS

- Rods
- Wire

STANDARD CAPABILITY

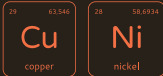
Format	Thickness	Width	Length
Strips	0.08 - 3.5 mm	3 - 380 mm	NA
Sheets	0.25 - 3.5 mm	20 - 380 mm*	500 - 3000 mm*

*Dimensions outside this range on request

Disclaimer : Data for information only, non-contractual



Niclal® 30R
CuNi₃₀



Niclal® 30R is a resistive Copper-Nickel (CuNi₃₀) alloy designed and produced by Lebronze alloys. It exhibits high precision of resistivity, even at high temperatures, as well as good corrosion resistance. This alloy is compliant with ASTM B267 standard in terms of resistivity and temperature coefficient of electrical resistance.

MATERIAL DESIGNATION

ISO	UNS	Others
CuNi ₃₀	NA	DIN 17471 n°2.0890

CHEMICAL COMPOSITION

Cu	Ni
Balance	30%

PHYSICAL PROPERTIES

General properties	
Density at 20 °C	8.9 g/cm³
Thermal conductivity	29 W/m.°C
Coefficient of thermal expansion from 20 to 200 °C	16.2 x 10 ⁻⁶ /°C
Melting point	1180 °C
Corrosion resistance	★★★★★
Modulus of elasticity	154 GPa
Specific heat capacity	0.38 J/g.°C
Electrical properties	
Resistivity at 20°C	41 μΩ.cm
Typical temperature coefficient of electrical resistance from +25 to +105°C	3900 - 4700 ppm/°C
Resistivity deviation	3σ = 5%

STANDARD CAPABILITY

Format	Thickness	Width	Length
Strips	0.08 - 3.5 mm	3 - 380 mm	NA
Sheets	0.25 - 3.5 mm	20 - 380 mm*	500 - 3000 mm*

*Dimensions outside this range on request

Disclaimer : Data for information only, non-contractual



Constantan 45
CuNi₄₄Mn₁



Constantan 45 is a resistive Copper-Nickel (CuNi₄₄Mn₁) alloy designed and produced by Lebronze alloys. It exhibits high precision of resistivity, even at high temperatures, as well as great corrosion resistance.

MATERIAL DESIGNATION

ISO	UNS	Others
CuNi ₄₄ Mn ₁	NA	DIN 17471 n°2.0842

CHEMICAL COMPOSITION

Cu	Ni	Mn
Balance	44%	1%

PHYSICAL PROPERTIES

General properties	
Density at 20 °C	8.9 g/cm³
Thermal conductivity	23 W/m.°C
Coefficient of thermal expansion from 20 to 200 °C	13.5 x 10 ⁻⁶ /°C
Melting point	1280 °C
Corrosion resistance	★★★★★
Modulus of elasticity	165 GPa
Specific heat capacity	0.38 J/g.°C
Electrical properties	
Resistivity at 20°C	51 μΩ.cm
Resistivity deviation	3σ = 5%

STANDARD CAPABILITY

Format	Thickness	Width	Length
Strips	0.08 - 3.5 mm	3 - 380 mm	NA
Sheets	0.25 - 3.5 mm	20 - 380 mm*	500 - 3000 mm*

*Dimensions outside this range on request

Disclaimer : Data for information only, non-contractual



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