

GLOBAL INDUSTRIAL

METAL SUPPLY SOLUTIONS

INDUSTRIAL RAW MATERIALS
& SEMI-FINISHED PRODUCTS



GLOBAL
SOURCING



QUALITY
ASSURANCE



RELIABLE
PARTNER



EXPORT
EXPERTISE



INDUSTRIAL
SOLUTIONS



VALMETO
GLOBAL TRADE



WHY VALMETO?

YOUR TRUSTED PARTNER
IN INDUSTRIAL METAL SOLUTIONS

OUR IDENTITY

Valmeto Global Trade is an international supplier of non-ferrous metals, semi-finished products and industrial engineering materials.



GLOBAL SUPPLY NETWORK

Strong global sourcing capabilities with reliable partners.



PREMIUM QUALITY

All products are manufactured to international standards and certified.



RELIABLE PARTNERSHIP

Long-term cooperation based on trust, transparency and performance.



FLEXIBLE SOLUTIONS

Customized solutions for your industry and production requirements.



ON-TIME DELIVERY

Efficient logistics and timely delivery across Europe and worldwide.

OUR EXPERTISE

- Copper Solutions
- Brass Precision Products
- Bronze Engineering Materials
- Conductive Alloys
- Industrial Sourcing



INDUSTRIES WE SERVE



CABLE INDUSTRY

High quality materials for power and communication cables.



ELECTRICAL INDUSTRY

Reliable solutions for electrical components and applications.



CNC MACHINING

Premium materials for precision machining and manufacturing.



HVAC

Durable materials for heating, cooling and refrigeration systems.



AUTOMOTIVE

High performance materials for automotive components.



INDUSTRIAL MANUFACTURING

Supporting modern industry with quality raw materials.



ENERGY INFRASTRUCTURE

Materials for energy distribution and infrastructure projects.



GLOBAL NETWORK



QUALITY ASSURANCE



TRUSTED PARTNER



RELIABLE SUPPLY

GLOBAL INDUSTRIAL
METAL SUPPLY SOLUTIONS



VALMETO
GLOBAL TRADE

GLOBAL REACH. RELIABLE DELIVERY.

VALMETO provides integrated supply solutions for industrial metals and semi-finished products with a strong global network, efficient logistics, and customer-focused service approach.



GLOBAL SOURCING

Strategic partnerships with certified producers worldwide to ensure raw material security, quality, and competitive pricing.



EXPORT OPERATIONS

Professional export management with documentation, customs clearance, and international compliance.



OEM SUPPLY

Tailored solutions for OEMs with consistent quality, technical support, and on-time delivery performance.



FLEXIBLE PRODUCTION NETWORK

Wide product range and flexible production capabilities to meet customized industrial demands.



EUROPE-FOCUSED LOGISTICS

Optimized logistics network with fast and reliable delivery across Europe and neighboring regions.



INDUSTRIAL PACKAGING SOLUTIONS

Secure and export-ready packaging according to international standards to ensure safe transportation.



STANDARDS & QUALITY ASSURANCE

All products are supplied in accordance with international standards and quality requirements.

EN

European Standards

ASTM

American Society for Testing and Materials

DIN

German Industry Standards

MTC EN 10204 3.1

Mill Test Certificate EN 10204 Type 3.1

PACKAGING & LOGISTICS



WOODEN CRATES

SECURE WRAPPING

CONTAINER LOADING

SAFE TRANSPORT

WAREHOUSE SOLUTIONS



COMPLETE RANGE. INDUSTRIAL EXCELLENCE.

VALMETO GLOBAL TRADE DELIVERS a comprehensive portfolio of non-ferrous metals and semi-finished products. Engineered for performance. Sourced for reliability.



WIDE PRODUCT PORTFOLIO

Solutions for diverse industrial applications and requirements.



CONSISTENT QUALITY

Strict quality control and international standards in every stage.



INDUSTRY EXPERTISE

Deep knowledge of metals and applications that drives value.



CUSTOMER FOCUSED

Tailored solutions, technical support and long-term partnership.



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NETWORK



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RELIABLE
SUPPLY

GLOBAL INDUSTRIAL
METAL SUPPLY SOLUTIONS



VALMETO
GLOBAL TRADE

FOUR SOLUTIONS. ENDLESS POSSIBILITIES.

From high-conductivity metals to advanced alloys,
our productgroups deliver performance, reliability and value across every industry.



PREMIUM QUALITY

Strict quality
control and
internationally
certified standards.



WIDE APPLICATIONS

Products designed
for diverse
industrial
applications.



GLOBAL STANDARDS

EN, ASTM, DIN
compliant products
with full traceability.



CUSTOMIZED SOLUTIONS

Flexible production
and packaging
solutions tailored
to your needs.



TECHNICAL SUPPORT

Expert team
providing technical
assistance at every
step.

COPPER

CONDUCTIVE INDUSTRIAL PRODUCTS

High conductivity, excellent formability and
superior performance for electrical and industrial
applications.



BRASS

PRECISION MACHINING MATERIALS

Excellent machinability, corrosion resistance
and dimensional accuracy for precision
components.



BRONZE

ENGINEERING & WEAR-RESISTANT

ALLOYS Outstanding strength, durability and
wear resistance for demanding engineering
applications.



SPECIAL ALLOYS

HIGH-PERFORMANCE INDUSTRIAL

MATERIALS Advanced alloys for extreme
conditionsand critical applications across
multiple industries.



SOLUTIONS THAT DRIVE INDUSTRY FORWARD.

At Valmeto Global Trade, we go beyond supplying metals. We deliver integrated solutions tailored to the real needs of modern industries.

- Reliable materials.
- Technical expertise.
- Long-term partnership.



INDUSTRIES WE SERVE

 CABLE & CONDUCTOR INDUSTRY High-conductivity materials for power transmission, communication cables and advanced wiring applications.	 CNC & PRECISION MACHINING Premium quality metals for high-precision machining, ensuring accuracy, durability and consistent performance.	 ELECTRICAL & ENERGY SYSTEMS Reliable solutions for electrical components, power distribution and renewable energy infrastructure.
 HVAC & REFRIGERATION Durable and efficient materials for heating, cooling and refrigeration systems.	 INDUSTRIAL MANUFACTURING High-performance metals that support productivity, automation and advanced manufacturing processes.	 HEAVY ENGINEERING Engineered materials built for strength, reliability and extreme operating conditions.

ENGINEERED SOLUTIONS. REAL INDUSTRY IMPACT.

We combine high-quality metals, technical expertise and reliable supply to help industries improve performance, increase efficiency and build a stronger tomorrow.

01 CABLE & CONDUCTOR INDUSTRY

High-conductivity copper and brass solutions for power transmission, communication and specialized cables.

- ✓ High Consistent
- ✓ Reliable Conductivity
- ✓ Quality Supply



02 CNC & PRECISION MACHINING

Premium brass, bronze and aluminum materials designed for high-precision components and complex machining applications.

- ✓ Excellent Machinability
- ✓ Tight Tolerances
- ✓ High Reliability



03 ELECTRICAL & ENERGY SYSTEMS

Conductive and durable materials for electrical components, connectors, busbars and energy distribution systems.

- ✓ High Performance
- ✓ Safe & Compliant
- ✓ Long-Term Durability



04 HVAC & REFRIGERATION

Copper and brass solutions for heat exchange, piping systems and efficient thermal management.

- ✓ Corrosion Resistant
- ✓ Thermal Efficiency
- ✓ Leak-Proof Safety



05 INDUSTRIAL MANUFACTURING

Versatile metal solutions supporting a wide range of production processes and industrial applications.

- ✓ Versatile Applications
- ✓ Wide Product Range
- ✓ Strong Partnership



06 HEAVY ENGINEERING

High-strength and wear-resistant materials for demanding environments and critical engineering projects.

- ✓ High Strength
- ✓ Wear Resistant
- ✓ Built For Extreme Conditions



COPPER PRODUCTS



COPPER CATHODE



COPPER BILLET



COPPER ROD/BAR/PROFILES



**COPPER BUSBAR/
ELECTRICAL COMPONENTS**



COPPER WIRE ROD



COPPER WIRES



COPPER STRIP/FOIL/PLATE



COPPER TUBES/PIPES



**HVAC & REFRIGERATION
COPPER SYSTEMS**



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METAL SUPPLY SOLUTIONS



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COPPER CATHODE

High-purity copper cathodes with minimum 99.99% Cu content. Used as the primary raw material for wire rod production, profiles, tubes and alloy manufacturing.



- STANDARDS & SIZES:**
- Cathode Grade: LME Grade A
 - Standards: ASTM B115 (Cu-CATH-1), BS EN 1978:2022
 - Cathode Size: ~ 914 × 914 mm Thick: ~ 6–12 mm
 - Cathode Weight: ~ 50–150 kg/plate
 - Bundle Size: ~ 950 mm × 1070 mm × 300–530 mm
 - Bundle Weight: ~ 1900 kg (1500–2300 kg)

COPPER BILLET

Highly pure electrolytic copper cathodes are melted and cast into billets using precision vertical continuous casting systems. Used for extrusion, forging, machining and semi-finished copper products.



ALLOY:	STANDARD:	SIZE:
Cu-ETP	TS 9872	Diameter: 175 mm,
Cu-DHP	EN 1057	230 mm, 304 mm
Cu-DLP		Length: 300 mm – 900 mm

COPPER ROD / BAR

Copper rods and bars are high-purity solid copper products with excellent electrical and thermal conductivity, used in electrical, industrial, mechanical and engineering applications.



COMMON GRADES

C11000 / Cu-ETP / CW004A	Electrolytic Tough Pitch copper. Very high electrical conductivity, commonly used for electrical applic., busbars.
C10100 / Cu-OFE / CW009A	Oxygen-Free Electronic copper with 99.99% purity for advanced electronic and high-conductivity applications.
C10200 / Cu-OF / CW008A	Oxygen-Free copper designed for high thermal and electrical performance applications.
C12200 / Cu-DHP / CW024A	Phosph.-Deoxidized copper suitable for plumbing, industrial systems and brazing applications.

STANDARDS	SIZES	TEMPER	FORMS
EN 13601	Drawn Round Bar:	Soft	Round Bar
EN 13600	Ø 2 – 120 mm	(Annealed)	Hex Bar
ASTM B187	Extruded Round Bar:	Half Hard	Square Bar
ASTM B49	Ø 20 – 300 mm	Hard	Flat Bar
MTC EN 10204 3.1 available upon request	Cont. Cast Round Bar: Ø 8 – 400 mm		
	Hexagonal		

KEY PROPERTIES

- **Electrical Conductivity:** Excellent conductivity (≥100% IACS), suitable for power transmission and electrical components.
- **Corrosion Resistance:** High resistance to corrosion ensures long service life, even in demanding environments.
- **Ductility & Workability:** High ductility allows easy machining, forming and shaping without cracking.
- **Thermal Conductivity:** Efficient heat transfer makes copper rods suitable for thermal and cooling applications.
- **Sustainability:** 100% recyclable without loss of performance, supporting sustainable production.

APPLICATIONS

- Electrical components & busbars
- CNC machining & precision parts
- Power transmission systems
- Heat exchangers & cooling systems
- Industrial machinery
- Engineering applications
- Electrical connectors & terminals

COPPER PROFILES



Custom copper profiles for architectural, industrial and electrical applications.

AVAILABLE PROFILE TYPES

- U Profiles
- L Profiles
- T Profiles
- Hollow Profiles
- Custom Extruded Sections

PRODUCTION METHODS

- Extrusion
- Drawing
- CNC finishing
- Custom profile production

KEY FEATURES

- High dimensional accuracy
- Excellent formability and weldability
- Corrosion resistant
- Wide range of profile shapes and sizes

COMMON APPLICATIONS

- Busbar systems
- Electrical panels
- Architectural applications
- Industrial structures
- Power distribution systems

COPPER BUSBAR



High conductivity copper busbars manufactured for electrical power distribution and industrial connection systems.

AVAILABLE FORMS

- Flat Busbar
- Edgewise Busbar
- Flexible Busbar
- Tinned Busbar

SIZE RANGE

- Thickness: 2 mm – 30 mm
- Width: 10 mm – 300 mm
- Custom dimensions available upon request.

KEY FEATURES

- Excellent electrical conductivity
- High thermal conductivity
- Low electrical resistance
- Suitable for high current applications

COMMON APPLICATIONS

- Switchgear systems
- Transformer connections
- Power distribution panels
- Renewable energy systems
- Industrial electrical systems

AVAILABLE GRADES

- Cu-ETP
- Cu-OF

COPPER CONNECTORS & ELECTRICAL COMPONENTS



Precision copper electrical components manufactured for conductivity, durability and industrial electrical applications.

AVAILABLE PRODUCTS

- Copper Connectors
- Copper Terminals
- Electrical Contact Parts
- Copper Clamps
- Grounding Components
- Machined Copper Parts

KEY FEATURES

- Excellent conductivity
- Precision machining
- Corrosion resistant
- High mechanical strength

MANUFACTURING OPTIONS

- CNC Machining
- Surface Coating
- Stamping
- Tin Plating
- Forging
- Nickel Plating

COMMON APPLICATIONS

- Electrical panels
- Cable accessories
- Grounding systems
- Industrial machinery
- Energy distribution systems
- Automotive electrical systems

GENERAL INFORMATION

Grades	Standards	Typical Properties	Conditions
Cu-ETP	EN 13601 / EN 12163	Conductivity: Up to 101% IACS	Soft
Cu-OF	ASTM B187 / ASTM B152	Thermal Conductivity: 390 – 401 W/m·K	Half Hard
Cu-OFE	ISO 431 / ASTM Standards	Density: 8.89 g/cm³	Hard
Cu-DHP	EN 1976 / EN 1977	Melting Point: 1083°C	Extra Hard

COPPER WIRE ROD

Copper wire rod is the primary raw material for cable and conductor manufacturing, produced via Continuous Casting & Rolling (CCR) or Upcast technology. "High electrical conductivity, Homogeneous structure, Excellent drawability" making it ideal for electrical and industrial applications.



CHEMICAL PROPERTIES

Purity: $\geq 99.9\%$ Cu

Oxygen Content:

- Cu-ETP: ≤ 300 ppm - Conductivity: $\geq 100\%$ IACS
- Cu-OF: ≤ 5 ppm - Conductivity: $\geq 101\%$ IACS
- Cu-OFE: ≤ 2 ppm - Conductivity: $\geq 101\%$ IACS

SURFACE QUALITY:

- Bright and clean surface
- Low oxide layer
- Free from cracks and defects
- Uniform structure

SIZES

Cu-ETP8.00 mm
Cu-OF8.00 - 20.00 mm
Cu-OFE8.00 mm

ELECTRICAL PROPERTIES

- Low electrical resistance
- Stable conductivity performance

STANDARD

SASTM B49
EN 1977
IEC references

MECHANICAL PROPERTIES

- Temper: As Cast / Hot Rolled / Annealed
- High elongation
- Excellent drawability

MATERIAL GRADES

C11000 / Cu-ETP / CW004A Standard cable applications
C10200 / Cu-OF / CW008A Oxygen-free copper
C10100 / Cu-OFE / CW009A High purity for advanced electronics

COIL SPECIFICATIONS

- Coil weight: 2,000 kg – 5,000 kg
- Coil type: Loose coil, Compact coil
- Packaging: steel strapping + stretch film + pallet (optional)

APPLICATIONS

Cable & Conductor

- Manufacturing
- Power cables (LV / MV / HV)
- Data & telecom cables

Electrical & Electronics

- Magnet wire
- Transformer and motor windings

Industrial

- Wire drawing plants
- Stranding processes

BARE HARD DRAWN SOLID COPPER WIRE

Used in grounding systems, electrical conductors, overhead lines, cable manufacturing and industrial electrical applications.



MATERIAL GRADE

- Cu-ETP / C11000 / CW004A $\geq 100\%$ IACS
- Cu-OF / C10200 / CW008A $\geq 101\%$ IACS
- Cu-OFE / C10100 / CW009A $\geq 101\%$ IACS (upon request)

STANDARDS

- IEC 60228
- Class 1ASTM B1
- EN Standards

TECHNICAL FEATURES

- High electrical conductivity
- Excellent tensile strength
- Good surface quality
- Suitable for electrical and industrial applications
- Consistent diameter tolerance

DIAMETER RANGE

- 1.00 mm – 4.50 mm

TEMPERHARD

- Drawn

BARE ANNEALED SOLID COPPER WIRE

Used in cable manufacturing, flexible conductors, braiding, winding, electronics and industrial electrical applications.



DIAMETER RANGE

- 0.20 mm – 0.75 mm

MATERIAL GRADE

- Cu-ETP / C11000 / CW004A $\geq 100\%$ IACS
- Cu-OF / C10200 / CW008A $\geq 101\%$ IACS
- Cu-OFE / C10100 / CW009A $\geq 101\%$ IACS (upon request)

STANDARDS

- IEC 60228
- Class 1ASTM B3
- EN Standards

TECHNICAL FEATURES

- High flexibility
- Excellent electrical conductivity
- Smooth and clean surface
- Easy processing and forming
- Uniform mechanical properties

TEMPER

- Soft Annealed

STRANDED COPPER CONDUCTORS

Used in cable manufacturing, automotive wiring, grounding systems, welding cables, robotic systems, industrial equipment, power distribution and flexible electrical applications.



CONDUCTOR CLASSES

- Class 2 – Stranded Rigid Conductors
- Class 5 – Flexible Conductors
- Class 6 – Extra Flexible Conductors

APPLICATIONS

- Cable & Conductor
- Manufacturing
- Power cables (LV / MV / HV)
- Data & telecom cables
- Automotive & Industrial
- Automotive wiring
- Robotic systems/Industrial equipment
- Power Distribution
- Distribution panels
- Flexible electrical systems

STANDARDS

- IEC 60228, ASTM,
- EN Standards

MATERIAL GRADES

- Cu-ETP / C11000 / Cw004 - Conductivity: $\geq 100\%$ IACS
- Cu-OF / C10200 / CW008A (upon request) - Conductivity: $\geq 101\%$ IACS

CONDUCTOR CLASSES

- High electrical conductivity
- Excellent flexibility
- Uniform stranding structure
- Good bending performance
- Reliable mechanical strength
- Stable dimensional tolerance
- Suitable for dynamic and industrial applications

CONSTRUCTION TYPES

MULTI-STRAND CONDUCTORS

- 0.20mm×7, 0.20mm×16, 0.20mm×19, 0.20mm×24, 0.20mm×3, 2
- 0.22mm×7, 0.22mm×27
- 0.25mm×7, 0.25mm×19, 0.25mm×27
- 0.30mm×7, 0.30mm×19
- 0.40mm×7, 0.40mm×19
- 0.50mm×7, 0.50mm×19
- 0.52mm×7
- 0.60mm×7, 0.60mm×19
- 0.67mm×7

ROPE-TYPE FLEXIBLE CONDUCTORS

- 0.20mm×37, 0.20mm×50, 0.20mm×75
- 0.22mm×45
- 0.25mm×37, 0.25mm×45, 0.25mm×50, 0.25mm×75
- 0.27mm×50, 0.27mm×75, 0.27mm×105
- 0.30mm×37, 0.30mm×50, 0.30mm×75, 0.30mm×84, 0.30mm×112
- 0.40mm×36, 0.40mm×50
- 0.50mm×37
- 0.60mm×37
- 0.80mm×61
- 1.00mm×19, 1.00mm×37
- Various strand constructions available upon request.

GENERAL INFORMATION

- Conductor Classes: Class 2, Class 5, Class 6
- Stranding: Multi-strand & Rope-type
- Insulation: Available upon request
- Custom constructions available upon request

Type	Flexibility	Structure	Typical Use
Class 2	Low	Stranded rigid	Power cables
Class 5	High	Flexible stranded	Flexible cables
Class 6	Very High	Extra flexible	Robotics / dynamic systems

COPPER FLAT WIRE

Copper flat wires are used in metal zipper manufacturing and various industrial applications requiring high conductivity, formability and surface quality.

- Excellent electrical and thermal conductivity
- Corrosion resistance
- Machinability
- Suitable for soldering, welding and coating applications



COPPER CTC WIRE

Used in power transformers and high-efficiency electrical systems, CTC wires provide reduced load losses, improved cooling performance and enhanced mechanical strength.

- Continuously transposed structure
- Higher transformer efficiency
- Better cooling performance
- Increased winding productivity
- Strong mechanical strength



COPPER WELDING WIRE

Copper welding wire is used in TIG, MIG and similar welding applications where high electrical conductivity, durability and reliable welding performance are required.

- Stable arc characteristics
- Low oxidation
- Strong weld quality
- High conductivity
- Suitable for industrial & electrical applications



PLATED COPPER WIRES



Plated copper wires are designed for applications requiring improved corrosion resistance, solderability, heat resistance and reliable conductivity.

Available Types: Tin Plated Copper Wire, Silver Plated Copper Wire, Nickel Plated Copper Wire. High conductivity, Corrosion & oxidation resistance, Excellent solderability. Available on spools or coils.

ENAMELLED / MAGNET WIRE



Enameled copper wires are insulated conductors used in transformers, electric motors, coils, generators and various electromagnetic applications.

Excellent insulation performance, High thermal resistance, Various enamel types and temperature classes, High winding efficiency, Reliable electrical performance.

KEY BENEFITS

- High Electrical Conductivity
- Excellent Flexibility & Formability
- Reliable Performance
- Wide Range of Applications
- Custom Solutions Available



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COPPER STRIP, FOIL & PLATE PRODUCTS

High quality rolled copper products designed for electrical, electronic, industrial and precision applications. International standards with excellent conductivity, formability and surface quality.

COPPER FOIL

Copper foil is an ultra-thin, high-conductivity copper material used in cable shielding, electronics, energy systems and industrial electrical applications and precision electrical components.

APPLICATIONS

- PCB manufacturing
- Lithium batteries
- EMI shielding
- Electronics Cable shielding
- Flexible electrical components

TECHNICAL SPECIFICATIONS

Property	Value
• Thickness	• 0.006 mm – 0.20 mm
• Type	• Electrolytic / Rolled

KEY FEATURES

- Ultra-thin material
- High conductivity
- Excellent flexibility
- Corrosion resistance



COPPER STRIP

Copper strips are widely used in electrical, automotive, energy, construction and industrial applications requiring high conductivity, formability and reliable mechanical performance.

APPLICATIONS

- Electrical equipment
- Automotive industry
- Connector manufacturing
- Transformer components
- Busbar systems
- Cooling systems
- Decorative applications

TECHNICAL SPECIFICATIONS

Property	Value
• Thickness	• 0.05 mm – 50 mm
• Form	• Sheet / Coil
• Standard	• EN 1652

KEY FEATURES

- High electrical conductivity
- Excellent formability
- Good surface quality
- Reliable performance



COPPER SHEET

Copper sheets are widely used in electrical, architectural and industrial applications requiring high conductivity, durability and excellent forming properties.

Produced from high-purity copper according to EN and DIN standards, copper sheets offer reliable performance for industrial fabrication and decorative applications.



AREAS OF APPLICATION

- Electrical industry
- Roof cladding
- Grounding systems
- Decorative applications
- Industrial fabrication
- Construction industry

TECHNICAL SPECIFICATIONS

Property	Value
• Material Standard	TS EN 1652 / DIN EN 1359
• Copper Content	≥ 99.95% Cu
• Form	Sheet / Coil
• Surface	Mill Finish / Polished

TYPICAL DIMENSIONS

Property	Value
• Thickness	0.10 mm – 6.00 mm
• Width	Up to 1250 mm
• Length	Up to 3000 mm

COMMON FORMATS

- 1000 × 2000 mm
- 1250 × 2500 mm
- Coil form available

TYPICAL TEMPER

- Soft (O)
- Half Hard (H01 / H02)
- Hard (H04)

KEY FEATURES

- High conductivity
- Excellent formability
- Smooth surface quality
- Good corrosion resistance
- Suitable for bending and forming
- Durable structure

COPPER PLATE

Copper plates are widely used in electrical, electronic and grounding applications requiring high conductivity and reliable mechanical performance.

Produced from high-purity Cu-ETP copper according to EN standards, these plates offer excellent electrical conductivity, durability and recyclability for industrial applications.



APPLICATION

- Electrical equipment
- Grounding systems
- Busbar manufacturing
- Industrial machinery
- Heavy electrical systems
- CNC machining

TECHNICAL SPECIFICATIONS

Property	Value
• Material Standard	Cu-ETP / C11000
• Copper Content	EN Standards
• Form	Plate
• Surface	Hot Rolled / Machined

TYPICAL DIMENSIONS

Property	Value
• Thickness	6.00 mm – 150.00 mm
• Width	Up to 3000 mm
• Length	Up to 6000 mm

COMMON FORMATS

- 1000 × 2000 mm
- 1250 × 2500 mm
- 1500 × 3000 mm

TYPICAL TEMPER

- Soft
- Semi-Hard
- Hard

KEY FEATURES

- High electrical conductivity
- Strong mechanical structure
- Excellent machinability
- Long service life
- Recyclable material
- Suitable for industrial applications

COPPER TUBES & INDUSTRIAL PIPING

High quality copper tubes and piping solutions for industrial, plumbing, water and general applications. Excellent corrosion resistance, high conductivity and long service life.

STRAIGHT LENGTH COPPER TUBES

Straight length copper tubes are produced in various sizes and tempers for industrial and general applications.

FEATURES

- High corrosion resistance
- Excellent thermal and electrical conductivity
- Smooth internal surface
- Easy to cut, bend and install
- Compatible with most fittings

TECHNICAL SPECIFICATIONS

Property	Value
• Standard	EN 1057 / ASTM B68 / ASTM B75
• Temper	Soft (O) / Half Hard (R250) / Hard (R290)
• Outside Diameter	3 mm – 219 mm
• Wall Thickness	0.30 mm – 10.00 mm
• Length	5 m – 6 m (or custom)



PANCAKE COIL COPPER TUBES

Pancake coil copper tubes are widely used in refrigeration, air conditioning and general piping systems.

FEATURES

- Compact and easy to handle
- Suitable for long runs
- Excellent formability
- Leak-proof and reliable
- Ideal for HVAC applications

TECHNICAL SPECIFICATIONS

Property	Value
• Standard	EN 1057 / ASTM B280
• Temper	Soft (O)
• Outside Diameter	6 mm – 22 mm
• Wall Thickness	0.30 mm – 1.20 mm
• Length	15 m – 50 m (or custom)



WATER TUBES

Copper water tubes are ideal for potable water systems, heating and cooling installations.

FEATURES

- Suitable for potable water
- High corrosion resistance
- Hygienic and safe
- Long service life
- Resistant to high pressure and temperature

TECHNICAL SPECIFICATIONS

Property	Value
• Standard	EN 1057 / ASTM B88
• Temper	Soft (O)
• Outside Diameter	10 mm – 108 mm
• Wall Thickness	0.70 mm – 3.00 mm
• Length	5 m – 6 m (or custom)



PLUMBING PIPES

Copper plumbing pipes are used in hot and cold water systems, sanitary installations and building applications.

FEATURES

- Easy to install
- High durability
- Leak-proof joints
- Resistant to dezincification
- Ideal for plumbing systems

TECHNICAL SPECIFICATIONS

Property	Value
• Standard	EN 1057 / ASTM B88
• Temper	Soft (O)
• Outside Diameter	12 mm – 54 mm
• Wall Thickness	0.70 mm – 2.00 mm
• Length	5 m (or custom)



COPPER HOLLOW ROD

Copper hollow rods are used in electrical, industrial and mechanical applications requiring light weight and high conductivity.

FEATURES

- High strength to weight ratio
- Excellent machinability
- High electrical conductivity
- Suitable for precision applications
- Custom sizes available

TECHNICAL SPECIFICATIONS

Property	Value
• Standard	EN 12164 / ASTM B249
• Temper	Soft (O) / Half Hard (R250) / Hard (R290)
• Outside Diameter	5 mm – 120 mm
• Wall Thickness	1.00 mm – 20.00 mm
• Length	Up to 6 m (or custom)



APPLICATION AREAS



INDUSTRIAL

Industrial piping, heat exchangers, hydraulic and chemical systems.



PLUMBING

Building installations, sanitary systems, hot & cold water lines.



WATER SYSTEMS

Potable water, heating systems, cooling systems.



HVAC SYSTEMS

Air conditioning, refrigeration and ventilation systems.



ELECTRICAL

Grounding, earthing and electrical applications.



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AIR CONDITIONING & REFRIGERATION SOLUTIONS

High performance copper products for modern HVAC & refrigeration systems.
Designed for efficiency, reliability and long service life.

LEVEL WOUND COIL (LWC)

Level wound copper coils are widely used in air conditioning, refrigeration and heat exchanger applications.

FEATURES

- Smooth surface
- Consistent dimensions
- Excellent formability
- High pressure resistance
- Ideal for heat exchangers



TECHNICAL SPECIFICATIONS

Property	Value
• Standard	EN 12735-1 / ASTM B280
• Temper	Soft (O)
• Outside Diameter	6.00 mm – 22.00 mm
• Wall Thickness	0.30 mm – 1.20 mm
• Coil Weight	15 kg – 50 kg (or custom)

CAPILLARY TUBES

Copper capillary tubes are essential components in expansion devices and precision refrigeration systems.

FEATURES

- Precise dimensions
- Clean and smooth bore
- High pressure performance
- Excellent formability
- Reliable and consistent flow



TECHNICAL SPECIFICATIONS

Property	Value
• Standard	EN 12449 / ASTM B360
• Temper	Soft (O)
• Outside Diameter	0.50 mm – 3.00 mm
• Wall Thickness	0.10 mm – 0.50 mm
• Coil Weight	15 m – 300 m (or custom)

INSULATED COPPER TUBES

Pre-insulated copper tubes improve energy efficiency and prevent condensation in HVAC systems.

FEATURES

- Thermal insulation
- Condensation prevention
- Energy saving
- Easy to install
- Clean and durable



TECHNICAL SPECIFICATIONS

Property	Value
• Standard	EN 12735-1 / ASTM B280
• Temper	PE Foam
• Outside Diameter	6 mm – 20 mm
• Wall Thickness	6 mm – 22 mm
• Coil Weight	15 m – 50 m (or custom)

ANTI-UV INSULATED TUBES

UV resistant insulated copper tubes are designed for outdoor units and harsh environmental conditions.

FEATURES

- UV resistant
- Weatherproof
- Condensation prevention
- Long service life
- Excellent insulation



TECHNICAL SPECIFICATIONS

Property	Value
• Standard	EN 12735-1 / ASTM B280
• Temper	PE Foam (UV Resistant)
• Outside Diameter	6 mm – 20 mm
• Wall Thickness	6 mm – 22 mm
• Coil Weight	15 m – 50 m (or custom)

RUBBER INSULATED TUBES

Flexible rubber insulated copper tubes provide excellent insulation and are ideal for HVAC & refrigeration systems.

FEATURES

- Flexible and durable
- High insulation performance
- Condensation prevention
- Flame retardant insulation
- Easy to bend and install



TECHNICAL SPECIFICATIONS

Property	Value
• Standard	EN 12735-1 / ASTM B280
• Temper	Elastomeric Rubber
• Outside Diameter	6 mm – 25 mm
• Wall Thickness	6 mm – 22 mm
• Coil Weight	15 m – 50 m (or custom)

COPPER MONTAGE KITS

Complete copper installation kits for fast, easy and reliable HVAC system assembly.

FEATURES

- Complete solution
- Time saving
- Easy installation
- Leak-proof
- Professional packaging



KIT CONTENTS

- Copper Tube (Insulated)
- Connection Cable
- Drain Hose
- Putty
- PVC Tape
- Installation Accessories

HVAC COPPER FITTINGS

High quality copper fittings for refrigeration and air conditioning applications.



Elbow 90°



Elbow 45°



Tee



Reducer



Coupling



End Cap



U-Bend

FEATURES

- High reliability
- Leak-proof connections
- High pressure resistance
- Corrosion resistant
- Easy to braze and install

TECHNICAL SPECIFICATIONS

Property	Value
• Standard	EN 12735-1 / ASTM B280
• Material	Cu-DHP (C12200)
• Size Range	6 mm – 54 mm
• Connection Type	Brazing
• Applications	Air Conditioning

TYPICAL APPLICATIONS

- Air Conditioning Systems
- Refrigeration Systems
- Heat Pump Systems
- Ventilation Systems
- Commercial Buildings
- Industrial Applications

KEY BENEFITS

- Premium Quality Copper
- Global Standards
- Exact Dimensions & Tolerances
- Maximum Energy Efficiency
- Sustainable & Recyclable Solutions

COPPER TECHNICAL

HIGH CONDUCTIVITY • HIGH PERFORMANCE • RELIABLE SOLUTION

COPPER ALLOYS

EN Symbol	EN Number	DIN Symbol	DIN Number
Cu-ETP1	CW003A	E-Cu57	20 060
Cu-ETP	CW004A	E-Cu58	20 065
Cu-OF	CW008A	OF-Cu	20 040
Cu-OFE	CW009A	OFE-Cu	20 040
Cu-DHP	CW024A	SF-Cu	20 090
Cu-HCP	CW021A	SE-Cu	20 070
Cu-PHC	CW020A	SE-Cu	20 070
Cu-FRHC	CW005A	–	–
Cu-FRTP	CW006A	–	–
Cu-DLP	CW023A	SW-Cu	20 076
Cu-DXP	CW025A	–	–
CuCr1Zr	CW106C	CuCr1Zr	21 293
CuTep	CW118C	CuTep	21 546

COPPER TYPES

Grade	Description
Cu-ETP1	Electrolytically refined higher purity copper
Cu-ETP	Electrolytic tough pitch high conductivity copper
Cu-OF	Oxygen free high conductivity copper
Cu-OFE	Oxygen free electronic grade copper
Cu-DHP	Deoxidized high phosphorus copper
Cu-HCP	High conductivity phosphorus deoxidized copper
Cu-PHC	Phosphorus containing copper
Cu-FRHC	Fire refined high conductivity copper
Cu-FRTP	Fire refined tough pitch copper
Cu-DLP	Deoxidized low phosphorus copper
Cu-DXP	Deoxidized phosphorus copper
CuCr1Zr	Chromium zirconium copper
CuTep	Tellurium copper

PHYSICAL PROPERTIES OF ELECTROLYTIC COPPER

Property	Unit	Value
Density	g/cm ³	8.89
Melting Point	°C	1083 ±0.1
Boiling Point	°C	2595
Specific Heat	cal/gr/°C	0.093
Linear Expansion Coefficient	1/°C	17.4 · 10 ⁻⁶
Thermal Conductivity	W/mK	340 – 400
Electrical Conductivity	m/Ω mm ²	55 – 58
Electrical Conductivity	IACS	100%

MAIN APPLICATIONS

- Electrical & Electronic
- sCable & Wire Industry
- Automotive Industry
- CNC Machining
- HVAC & Refrigeration
- Power Distribution
- Industrial Manufacturing

QUALITY DOCUMENTS

- EN 10204 3.
- 1Certificate
- Chemical Analysis Report
- Mechanical Test Report
- Conductivity Test Report
- RoHS / REACH Declaration

TEMPER OF COPPER RODS & WIRES

Temper	EN	Former Designation
Soft / Annealed	H035	F20
Half Hard	H065	F25
Hard	H085	F30
Extruded	P	P

TEMPER OF COPPER SHEETS & STRIPS

Temper	EN	Thickness
Soft / Annealed	R200 / H040	5 mm +
Soft / Annealed	R220 / H040	0.2 – 5 mm
Half Hard	R240 / H065	0.2 – 15 mm
Hard	R290 / H090	0.2 – 15 mm
Extra Hard	R360 / H110	0.2 – 2 mm

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BRASS PRODUCTS



BRASS BILLETS



BRASS INGOTS



BRASS RODS / BARS / SPECIAL PROFILES



BRASS COLD DRAWN COILS



BRASS STRIPS / SHEETS / PLATES



BRASS HOLLOW ROD / BRASS TUBES



FREE-MACHINING BRASSES



HOT STAMPING (FORGING) BRASSES



LEAD-FREE & DZR BRASSES



COLD WORKING BRASSES



CASTING BRASSES



HIGH TENSILE BRASSES



ELECTRICAL & ELASTIC BRASSES

BRASS BILLETS

We produce homogeneous, precision-engineered brass billets on advanced continuous casting lines with a monthly production capacity of 1,500 tons, fully compliant with EN 1982 standards.



EN Symbol	EN Code
CuZn39Pb3	CW614N
CuZn40Pb2	CW617N
CuZn40	CW509L
CuZn38Pb1	CW607N
CuZn39Pb2	CW612N
CuZn37	CW508L
CuZn36Pb3	CW603N
CuZn39Pb3 DW	CW614N
CuZn40Pb2 DW	CW617N
CuZn39Pb1 Al-C	CC757S

PRODUCTION RANGES

- Diameter
Ø100 mm – Ø200 mm
- Length
500 mm - 3000 mm

TECHNICAL INFORMATION

Property	Value
• Standards	EN 12165 / EN 1982 / ASTM B249 – B371
• Density (ρ)	8.4 – 8.6 g/cm³
• Annealing Temperature	450 – 550 °C
• Surface Condition	Turned / As-cast
• Tolerance	±1.5 mm

APPLICATIONS

- Forged parts
- Extrusion billets
- Valve components
- Machining pre-materials
- Industrial fittings

BRASS INGOTS

CC757S – CuZn39Pb2Al-C

Brass ingots are supplied for foundry, casting and industrial brass component manufacturing applications.

APPLICATIONS

- Water faucets
- Valve systems
- Plumbing components
- Brass casting applications

FEATURES

- EN 1982 compliant production
- Suitable for drinking water applications
- REACH & RoHS compliant
- 4MS & UBA compatible alloys available

AREAS OF USAGE

- Water watches
- Water faucet manufacturing
- Plumbing systems
- Industrial casting applications

STANDARDS & COMPLIANCE

Standard	Description
• EN-1982	Standard for brass and copper alloys, ingots and casts
• DIN 50930-6	Standard for brass materials used in areas contacting drinking water
• UBA List	German Federal Environment Agency drinking water material approval list
• 4MS	European committee regulating drinking water contact materials



INDUSTRIES SERVED



**BULLET
CARTRIDGES**



**HVAC (HEATING,
VENTILATION AND AIR
CONDITIONING)**



**ELECTRICAL
AND ELECTRONIC
DEVICES**



**TAPS
& VALVES**



**FASTENERS
AND
INSERTS**



**BRASS NUTS
AND
SCREWS**



High quality
raw material



Consistent
quality



Engineered
for performance



Reliable
supply



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SUPPLY

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GLOBAL TRADE

BRASS RODS / BARS & SPECIAL PROFILES

High precision brass semi-finished products for CNC machining, hot forging and industrial engineering applications.

BRASS EXTRUDED RODS

Our extruded rods are manufactured in full compliance with the EN 12165 European Standard for hot forging processes, ensuring superior quality and performance.

KEY CHARACTERISTICS

- Exceptional machinability – the highest among copper alloys
- Excellent corrosion resistance
- Outstanding strength and durability
- Superior hot formability for precision applications

STANDARDS

- EN 12165 / ASTM C37700 / DIN Ms58

PRODUCTION METHOD

- Hot Forging (Press)

SIZE RANGE

- Ø10 mm – Ø100 mm

LENGTH

- 1000 – 4000 mm

EN Symbol	EN Code
CuZn39Pb3	CW614N
CuZn40Pb2	CW617N
CuZn40	CW509L
CuZn38Pb1	CW607N
CuZn39Pb2	CW612N
CuZn37	CW508L
CuZn36Pb3	CW603N
CuZn39Pb3 DW	CW614N
CuZn40Pb2 DW	CW617N

CW617N – CuZn40Pb2 (C37700)

Cu	Pb	Fe	Al	Sn	Ni	Mn	Zn
57.0–59.0	1.6–2.5	≤0.3	≤0.05	≤0.3	≤0.3	≤0.3	Balance

MAIN APPLICATIONS

- Valve bodies
- Faucet components
- Forged fittings
- Automotive connectors

PRODUCTION FEATURES

- Excellent hot formability
- Good solderability
- Annealing Temperature: 430–520 °C
- Straightness Tolerance: ≤ 1.5 mm/m
- Ovality: Max. 50% of diameter tolerance

BRASS COLD DRAWN RODS

Our cold drawn rods are produced in full compliance with EN 12164 European Standards and tailored to meet specific customer requirements.

STANDARDS

- EN 12164 / EN 12167 / ASTM B16–B453

PRODUCTION METHOD

- Cold Drawing (Calibration)

SURFACE

- Polished / turned surface

MECHANICAL PROPERTIES

- Rm: 430 – 550 Mpa

DIAMETER RANGE

- Ø2 mm – Ø60 mm

TOLERANCE

- h9 (optional h8–h11)

MAIN APPLICATIONS

- CNC machining
- Precision components
- Decorative parts
- Connector manufacturing

MECHANICAL PROPERTIES (COLD DRAWN CALIBRATED)

Alloy	Rm (MPa)	Rp0.2 (MPa)	Elongation (%)	Machinability (%)
CW614N	490–540	340	10–15	100
CW607N	440–500	300	12–20	85
CW603N	430–500	280	15–25	80
CW612N	470–550	350	10–15	80
CW508L	450–520	320	15–25	30
CW509L	430–490	300	20–30	25

BRASS SPECIAL PROFILES

Our special profiles are manufactured in customized shapes and sizes in full compliance with EN 12167 standards, tailored to meet precise customer requirements.

Production is carried out in two processes – extruded or cold drawn – depending on required dimensional tolerances and mechanical properties. We offer round, square, and hexagonal profiles, with further customization available upon customer request.

ADVANTAGES

- Precision machining
- High machinability
- Tight tolerances
- Global standards
- Reliable supply

NOTES

- “m” (medium) tolerance used for special profiles
- “f” (fine) and “c” (coarse) tolerances are also available
- f (fine): High-precision decorative profiles (medium): General engineering and connector parts
- c (coarse): Large sections or pre-forging profiles

GEOMETRIC TOLERANCES

Property	Value
Straightness	≤ 0.5 mm/m
Bending / Twisting	≤ 0.3% of total length
Corner Radius (r)	Max. 0.3 – 1.0 mm
Section Deviation	±0.1 – 0.3 mm
Surface Quality (Ra)	0.8 – 1.6 μm

PRODUCTION RANGES

- 2 mm – 100 mm

Standard Length

- 3000 mm

Maximum Length

- up to 4000 mm

SPECIAL PROFILES – SIZE STANDARDS (EN 12167)

Nominal Size (mm)	Tolerance Class	Tolerance (mm)	Description
3 – 6	m (medium)	±0.15	Small profiles (thin sections)
>6 – 10	m (medium)	±0.20	Flat, square, hexagon profiles
>10 – 18	m (medium)	±0.25	Standard section profiles
>18 – 30	m (medium)	±0.30	Medium-sized profiles
>30 – 50	m (medium)	±0.40	Large section profiles

EN SYMBOLS / EN CODES

EN Symbol	EN Code
CuZn39Pb3	CW614N
CuZn40Pb2	CW617N
CuZn40	CW509L
CuZn38Pb1	CW607N
CuZn39Pb2	CW612N
CuZn37	CW508L
CuZn36Pb3	CW603N
CuZn39Pb3 DW	CW614N
CuZn40Pb2 DW	CW617N

TECHNICAL INFORMATION

Property	Value / Description
Profile Types	Hexagon, square, flat, U, L, T, custom sections
Size Range	2.5×2.5 mm – 50×50 mm
Length	2,000 – 3,000 mm
Tolerance	h9
Surface Quality	Polished / matte / processed
Density	8.45 – 8.50 g/cm³
Mechanical Properties (Rm)	450 – 550 MPa
Annealing Range	450 – 550 °C
Applications	Mechanical connectors, decorative profiles, automotive hardware

BRASS WIRES & EDM WIRES

High precision brass wire solutions for electrical systems, welding applications, EDM cutting operations and industrial manufacturing.

BRASS COLD DRAWN COILS

Our cold drawn coils are manufactured in full compliance with EN 12168 European Standard. Engineered for high precision, they are ideal for efficient chip removal in free machining processes, ensuring superior performance and quality.



CW508L – CUZN37 (C27200)

Standards

- EN 12163 / EN 12164 / EN 1652
- ASTM: C27200
- DIN: Ms63

Mechanical Properties

- Hardness: 130 HB
- Machinability: 30%

Applications

- Decorative elements, plugs & sockets, tube & wire products, heat exchangers, engineering parts.

Production Features

- Excellent cold formability
- Good weldability
- Annealing temperature: 450–650 °C

Usage Notes

- 0.50 – 2 mm: Electrical connection wires, braided and fine wire products
- 2 – 5 mm: Welding wire, spring wire, small connection parts
- 5 – 12 mm: Mechanical parts, pre-hot forming wire

GEOMETRIC PROPERTIES

Property	Value / Range
Ovality	Max. 50% of diameter tolerance
Straightness	Max. 1 mm/m
Surface Quality	Bright, oil-free, oxide-free (coating optional)
Density	8.44 – 8.50 g/cm³
Annealing Range	400–600 °C

PRODUCTION RANGES

Diameter Range

- Ø0.50 mm – Ø12 mm

Coil Weight

- 50 – 70 kg

Coil Dimensions

- Inner Diameter: 550 mm
- Outer Diameter: 650 mm
- Height: 150 mm

TECHNICAL INFORMATION

Standard

- EN 12166 – Copper and Copper Alloys – Wire

Production Method

- Continuous casting drawn, annealed / cold drawn

Alloys

- CW508L, CW509L, CW614N, CW617N

EN SYMBOLS / EN CODES

EN Symbol	EN Code
CuZn39Pb3	CW614N
CuZn40Pb2	CW617N
CuZn40	CW509L
CuZn38Pb1	CW607N
CuZn39Pb2	CW612N
CuZn37	CW508L
CuZn36Pb3	CW603N
CuZn39Pb3 DW	CW614N
CuZn40Pb2 DW	CW617N

TECHNICAL PROPERTIES

Property	Value / Description
Diameter Range	Ø0.50 mm – Ø12 mm
Tolerance	h10 (fine diameters ±0.01 mm)
Surface Quality	Bright, oil-free, oxide-free
Density	8.45 g/cm³
Annealing Range	400–600 °C
Hardness (HB)	80–150 HB
Mechanical Properties (Rm)	350–520 MPa
Applications	Electrical connection wire, welding wire, braided wire, spring wire

CHEMICAL COMPOSITION

Cu	Pb	Fe	Al	Sn	Ni	Mn	Zn
62.0–64.0	≤0.1	≤0.1	≤0.05	≤0.1	≤0.3	≤0.1	Balance

REFERENCE MECHANICAL PROPERTIES BY CONDITION

Condition	Rm (MPa)	Rp0.2 (MPa)	Elongation (%)	Hardness (HB)
Annealed	340–400	150–220	30–40	80–90
Half-hard	420–470	220–280	15–25	100–120
Hard Drawn	480–550	260–320	8–15	130–150

BRASS EDM WIRES

High precision EDM brass wires designed for wire erosion machines and precision metal cutting operations.



PAGE BENEFITS

- High Precision
- Consistent Quality
- Wide Product Range
- Global Standards
- Reliable Supply

APPLICATION NOTES

- 0.10 – 0.15 mm: Micro EDM operations, precision molds
- 0.20 – 0.25 mm: Most commonly used diameters, general EDM cutting
- 0.30 – 0.35 mm: Thick workpieces, molds, hard metal cutting

TECHNICAL PROPERTIES

Property	Value / Description
Diameter Range	0.15 – 0.30 mm (standard), optional 0.10 – 0.35 mm
Density	8.44 g/cm³
Tensile Strength (Rm)	900–1050 MPa
Elongation at Break (%)	≥2
Electrical Conductivity	≥20 %IACS
Surface Coating	Zinc or CuZn coating
Reels	P5 / P8 / P10 type reels
Applications	EDM machines – precision cutting operations

CHEMICAL COMPOSITION

Cu	Pb	Fe	Al	Sn	Ni	Mn	Zn
62.0–64.0	≤0.1	≤0.1	≤0.05	≤0.1	≤0.3	≤0.1	Balance

TECHNICAL INFORMATION

Standard

- EN ISO 16337 – EDM Wire Specifications

Production Method

- Brass wire drawing / coated wire production

Alloys

- CuZn37 (CW508L)

STANDARD PACKAGING

Property	Value / Range
Reels	P5 / P8 / P10 type reels
Wire Length	5,000 – 20,000 m (depending on diameter)
Packaging	Moisture-resistant carton box
Labeling	Diameter, alloy type, production date, lot number



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BRASS STRIPS, FOILS & SHEETS / PLATES

High precision flat rolled brass products for electrical, electronic, industrial and decorative applications.

BRASS STRIPS

Brass strips and coils are manufactured with high surface quality, precise thickness tolerance and excellent mechanical properties.

They are widely used in electrical, automotive, plumbing, decorative and general industrial applications.



AVAILABLE ALLOYS

Product Code	EN No	UNS (USA)	JIS (JAPAN)
CuZn5	CW500	C21000	C2100
CuZn10	CW501L	C22000	C2200
CuZn15	CW502L	C23000	C2300
CuZn20	CW503L	C24000	—
CuZn28	CW504L	—	—
CuZn30	CW505L	C26000	C2600
CuZn33	CW506L	C26800	C2680
CuZn35	CW507L	C26800	C2680
CuZn36	CW507L	C27000	—
CuZn37	CW508L	C27200	C2720
CuZn37Pb2	CW606N	C35300	—

TECHNICAL SPECIFICATIONS

Property	Range
Thickness	0.10 mm – 3.00 mm
Width	5 mm – 600 mm
Coil Weight	10 kg – 1000 kg
Surface	Bright, Polished, Matt
Hardness	Soft, Half Hard, Hard
Tolerance	Thickness: ± 0.01 mm / Width: ± 0.10 mm

APPLICATIONS

- Electrical connectors & terminals
- Automotive components
- Springs & contact parts
- Heat exchangers
- Decorative applications
- Plumbing & sanitary fittings
- Industrial components

SURFACE FINISH OPTIONS



Bright Finish
High reflective surface



Polished Finish
Smooth and shiny surface



Matt Finish
Non-reflective surface



Satin Finish
Fine brushed surface

BRASS SHEETS / PLATES

APPLICATIONS

- Electrical panels & components
- Automotive & transport components
- Marine & ship building
- Architectural & decorative applications
- Machinery & equipment parts
- Heat exchangers
- General industrial applications



TECHNICAL SPECIFICATIONS

Property	Range
Thickness (Sheets)	0.50 mm – 120.00 mm
Thickness (Plates)	3 mm – 200 mm
Width	100 mm – 1500 mm
Length	200 mm – 6000 mm
Surface	Bright, Polished, Matt
Hardness	Soft, Half Hard, Hard
Tolerance	Thickness: ± 0.05 mm / Width: ± 0.10 mm

STANDARD DIMENSIONS

(OTHER SIZES AVAILABLE UPON REQUEST)

Thickness (mm)	Width (mm)	Length (mm)
0.50 – 3.00	100 – 1000	200 – 3000
3.00 – 10.00	200 – 1250	500 – 4000
10.00 – 25.00	300 – 1500	1000 – 5000
25.00 – 50.00	500 – 1500	1000 – 6000
50.00 – 120.00	500 – 1500	1000 – 6000

SURFACE FINISH OPTIONS



Bright Finish
High reflective surface



Polished Finish
Smooth and shiny surface



Matt Finish
Non-reflective surface



Satin Finish
Fine brushed surface

BRASS FOILS



TECHNICAL INFORMATION

Property	Range
Thickness	0.10 – 0.30 mm
Surface	Bright / Polished
Conductivity	High
Formability	Excellent
Applications	Precision electronic applications

APPLICATION NOTES

- Excellent for stamping & forming
- High electrical conductivity
- Ideal for connector components
- Suitable for precision electronic applications

INDUSTRIES SERVED

- Electrical & Electronics
- Automotive Industry
- Marine & Ship Building
- Architectural & Decorative
- Industrial Machinery
- HVAC & Refrigeration
- General Engineering

OUR COMMITMENT



PREMIUM QUALITY
High quality brass with consistent properties



CONSISTENT QUALITY
Reliable performance in every application



CUSTOM SOLUTIONS
Custom sizes, tempers and packaging



GLOBAL SUPPLY
Complies with international standards



SUSTAINABLE & RECYCLABLE
100% recyclable and eco-friendly material

BRASS HOLLOW RODS & TUBES

High performance brass tubular products for machining, hvac, hydraulic and engineering applications

BRASS HOLLOW RODS (HOLLOW BARS)

Brass hollow rods are semi-finished tubular products used mainly for machining hollow components with reduced material loss and improved machining efficiency.

Standard: EN 12168

PRODUCT FORMS

- Round hollow bars
- Extruded hollow bars
- Drawn hollow bars

PRODUCT FORMS

- Material saving up to 25–30% compared to solid bars
- Reduced machining time
- Lower chip waste
- Better machining efficiency
- Ideal for internal geometries

MAIN APPLICATIONS

- Bushings
- Valve bodies
- Hydraulic parts
- Connectors
- Fittings
- Industrial components
- CNC machined parts

TYPICAL ALLOYS

Alloy	Description
CW602N	DZR brass
CW603N	Free machining brass
CW612N	Machinable brass
CW614N	High machinability brass
CW617N	Forging brass



BRASS TUBES (SEAMLESS / WELDED)

Brass tubes are produced in seamless and welded forms for industrial, decorative and heat-transfer applications.

MAIN APPLICATIONS

- HVAC systems
- Heat exchangers
- Condenser systems
- Decorative installations
- Engineering applications
- Plumbing systems
- Refrigeration equipment

MAIN APPLICATIONS

- Capillary tubes
- Condenser tubes
- Cartridge brass tubes (CuZn30)
- Seamless brass tubes
- Welded brass tubes

INDUSTRIES SERVED

- HVAC & Refrigeration
- Plumbing Systems
- Hydraulic Industry
- Industrial Manufacturing
- Decorative Applications
- Automotive
- Marine
- Precision Engineering

MAIN APPLICATIONS

- Capillary tubes
- Condenser tubes
- Cartridge brass tubes (CuZn30)
- Seamless brass tubes
- Welded brass tubes

TYPICAL ALLOYS

Alloy	EN Designation
CW508L	CuZn37
CW505L	CuZn30
CW501L	CuZn10

TECHNICAL SPECIFICATIONS

Property	Range / Description
Outer Diameter (OD)	Ø3 mm – Ø120 mm
Inner Diameter (ID)	According to wall thickness
Wall Thickness	Thin wall / thick wall options
Length	1000 – 6000 mm
Production Method	Extruded / Drawn / Welded
Surface	Bright / Polished / Matte
Tolerance	EN standard tolerances



MATERIAL PROPERTIES



GOOD CORROSION RESISTANCE

Reliable performance in industrial and humid environments.



GOOD MACHINABILITY

Suitable for turning, drilling and CNC machining.



HIGH DIMENSIONAL ACCURACY

Stable tolerances and smooth surface quality.



DECORATIVE APPEARANCE

Suitable for architectural and visible applications.



GOOD THERMAL CONDUCTIVITY

Efficient for HVAC and heat-transfer systems.



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EXTRUDED PRODUCTS (HOT PRESSED)



EXTRUDED - COST-EFFECTIVE, LARGE SECTIONS

- Cost-effective production
- Suitable for large sections
- High productivity
- Uniform grain structure
- Good mechanical strength

Extrusion is performed at elevated temperatures (~650–750°C), allowing the material to flow through a die to form rods, bars and profiles.

TYPICAL ALLOYS & CHARACTERISTICS

Alloy	Key Feature	Typical Use
CW617N	Excellent hot workability	Valves, fittings
CW608N	Good machinability + forging	General engineering
CW611N	Improved machinability	Extruded rods
CW612N	Balanced machining/forming	General purpose
CW613N	Improved hot forming	Forged parts
CW616N	Aluminium-added brass	Corrosion resistance
CW625N / CW626N	DZR / corrosion resistant	Water systems
CW713R	Wear resistance	Gears, heavy duty
CW720R	High tensile manganese brass	Marine, mining

DRAWN PRODUCTS



Cold drawing improves dimensional accuracy, surface finish and mechanical properties.

DRAWN - PRECISION, CNC APPLICATIONS

- Tight tolerances (H9 / H11)
- Smooth surface finish
- Improved strength due to cold work
- Ideal for CNC machining

TYPICAL ALLOYS & APPLICATIONS

Alloy	Key Feature	Application
CW600N	General purpose	Machining
CW602N	DZR	Plumbing
CW603N	Improved ductility	Fittings
CW605N / CW606N	Cold forming capability	Rivets, connectors
CW608N	Balanced alloy	Machining
CW612N	Medium machinability	CNC parts
CW614N	Best machinability	High-speed CNC
CW617N	Dual-purpose	Machining + forging

HOLLOW BARS



Produced via extrusion + drilling or direct hollow extrusion.

- Material saving (up to 25–30%)
- Reduced machining waste
- Faster machining
- Ideal for internal geometries

TYPICAL ALLOYS & APPLICATIONS

Alloy	Feature	Application
CW602N	DZR	Valve bodies
CW603N	Machinability	Bushings
CW605N / CW606N	Formability	Connectors
CW612N / CW614N	CNC optimized	Precision parts
CW617N	Forging + machining	Heavy fittings

BRASS TUBES



Produced in seamless or welded form for industrial and HVAC applications.

TYPES

- Capillary tubes
- Condenser tubes
- Cartridge brass tubes (CuZn30)
- Seamless tubes

FEATURES

- High dimensional accuracy
- Good corrosion resistance
- Decorative surface quality
- Good thermal conductivity

TYPICAL ALLOYS & APPLICATIONS

Alloy	Application
CW505L	Cartridge brass tubes
CW508L	General engineering tubes
CW501L	Decorative & electrical tubes

WIRE ALLOYS



Cold drawing of brass rod into fine diameters.

GENERAL INFORMATION

- Temper: Soft / Half Hard / Hard
- Standard: EN 12166
- Typical Diameter Range: 0.10 mm – 8.00 mm
- High ductility
- Controlled tensile strength
- Good surface quality

TYPICAL ALLOYS & APPLICATIONS

Alloy	Feature	Application
CW507L	General wire	Fasteners
CW508L	Formability	Springs
CW509L	Lead-free	Eco applications
CW601N / CW603N	Machinability	Electrical parts
CW606N / CW608N	Strength	Mechanical wire
CW612N / CW614N	Hard drawn	Connectors

STRIP ALLOYS



Cold rolling of brass into thin strip form.

FEATURES

- Excellent formability
- Good conductivity
- High surface quality

TYPICAL ALLOYS & APPLICATIONS

Alloy	Feature	Application
CW611N	Balanced properties	Connectors
CW612N	Strength + machinability	Terminals
CW505L	High formability	Electrical parts
CW508L	General purpose forming	Strips & sheets
CW501L	Corrosion resistance	Decorative applications

PLATE / SHEET ALLOYS



Hot rolled or cold rolled plates and sheets.

TYPICAL ALLOYS & APPLICATIONS

Alloy	Feature	Application
CW508L	General purpose	Sheets, plates
CW612N	Machinability	Industrial parts
CW614N	Precision machining	Precision parts
CW617N	Forging quality	Valves, fittings

SPECIAL BRASSES



NAVAL BRASS / ALUMINIUM BRASS

Applications

- Marine systems
- Heat exchangers
- Condenser tubes

Alloys:

- CuZn20Al2As (CW703R), CuZn20Al2

Features:

- Excellent seawater corrosion resistance
- Anti-dezincification behavior
- Good mechanical strength

SECTOR APPLICATIONS

AUTOMOTIVE

Radiators
Sensors
Connectors
Fittings

INDUSTRIAL ENGINEERING

Valves
Gears
Bearings
Machinery parts

PLUMBING / HYDRO SANITARY

Faucets
Pipe fittings
Valves
Manifolds

MARINE

Propellers
Pump components
Marine fittings
Seawater systems

REFRIGERATION

Heat exchangers
Condenser tubes
Capillary tubes
HVAC systems

MEDICAL EQUIPMENT

Instrument parts
Connectors
Valves
Precision components



NICKEL SILVER (CuNiZn)

Applications

- Decorative appearance
- Electrical connectors
- Instrument parts

Alloys:

- CW403J / CW409J

Features:

- Silver-like appearance
- High corrosion resistance
- Good electrical performance



HIGH STRENGTH / MANGANESE BRASS

Applications

- Heavy machinery
- Marine components
- Mining equipment

Alloys:

- CW720R / CW721R / CW722R / CuZn21Si3P (CW724R)

Features:

- High tensile strength
- Excellent wear resistance
- Good corrosion resistance



SILICON BRASS

- Lead-free
- Corrosion resistant
- High machinability
- Alternative to CW614N / CW602N

Alloys:

- CW724R / CW723R

BRASS DIMENSIONS & ALLOY DESIGNATIONS

Technical Reference for Brass Rods, Hollow Bars, Profiles & Billets

ALLOY DESIGNATIONS

EN CODE	EN SYMBOL
CW614N	CuZn39Pb3
CW617N	CuZn40Pb2
CW608N	CuZn38Pb2
CW603N	CuZn36Pb3
CW612N	CuZn39Pb2
CW607N	CuZn38Pb1
CW602N	CuZn36Pb2As
CW625N	CuZn35Pb1.5AlAs
CW626N	CuZn33Pb1.5AlAs
CW511L	CuZn38As
CW510L	CuZn42
CW508L	CuZn37
CW722R	CuZn40Mn1Pb1FeSn
CW723R	CuZn40Mn2Fe1
CW624N	CuZn43Pb2Al
CC757S	CuZn39Pb1Al-C
CC770S	CuZn36Pb-C

- NOTES**
- UBA & 4MS approved production available
 - RoHS II compliant production
 - Different alloys available upon request

DIMENSIONS

	FREE MACHINING RODS Round / Hexagonal / Square / FlatØ5 mm – Ø60 mm	EN 12164
	HOT FORGING RODS Round / Hexagonal / Square / FlatØ5 mm – Ø110 mm	EN 12165
	HOLLOW RODS – DRAWN OD 18 mm – 60 mmID 12 mm – 54 mm	EN 12168
	HOLLOW RODS – EXTRUDED OD 18 mm – 90 mmID 12 mm – 70 mm	EN 12168
	SPECIAL PROFILES Custom Forms & Dimensions	EN 12167
	BRASS BILLETS Round R150 – R230 mm	EN 1982

- NOTES**
- Drawn condition - Min wall thickness: 3 mm
 - Extruded condition - Min wall thickness: 5 mm

CHEMICAL SPECIFICATIONS (REFERENCE)

ALLOY	Cu (%)	Pb (%)	Fe (%)	Al (%)	Zn (%)
CW614N (CuZn39Pb3)	57–59	2.5–3.5	≈0.30	≈0.05	Balance
CW617N (CuZn40Pb2)	57–59	1.6–2.2	≈0.30	≈0.05	Balance
CW608N (CuZn38Pb2)	60–61	1.6–2.2	≈0.20	≈0.05	Balance
CW602N (CuZn36Pb2As)	61–63	1.7–2.2	≈0.10	≈0.05	Balance

DIMENSIONAL TOLERANCES (REFERENCE)

SIZE RANGE (mm)	EN 12164 (Free Machining)	EN 12165 (Hot Forging)
5 – 10	h9 / h10	±0.25 mm
10 – 18	h9 / h10	±0.25 mm
18 – 30	h9 / h10	±0.30 mm
30 – 50	h9 / h10	±0.60 mm
50 – 80	h9 / h10	±0.70 mm
80 – 110	—	±2.00 mm

INDUSTRIES SERVED

- CNC Machining
- Plumbing & Sanitary Systems
- Valve & Fittings Industry
- Automotive Components
- Marine Applications
- Electrical Components
- Heavy Engineering
- Decorative & Architectural Systems

QUALITY BRASS. PRECISION SOLUTIONS



CNC MACHINING



HOT FORGING



HOLLOW BARS



SPECIAL PROFILES



DZR BRASS



GLOBAL STANDARDS



GLOBAL NETWORK



QUALITY ASSURANCE



TRUSTED PARTNER



RELIABLE SUPPLY

GLOBAL INDUSTRIAL
METAL SUPPLY SOLUTIONS



VALMETO
GLOBAL TRADE

TECHNICAL SPECIFICATIONS & TOLERANCES

Chemical Composition, EN Standards & Dimensional Tolerances for Brass Semi-Finished Products

CHEMICAL COMPOSITION TABLE

Alloy	Cu	Pb	Sn	Fe	Ni	Al	Mn	Si	Zn	Others
CW614N / CuZn39Pb3	57–59	2.5–3.5	=0.3	=0.3	=0.2	=0.05	-	-	Rem	=0.2
CW617N / CuZn40Pb2	57–59	1.6–2.2	=0.3	=0.3	=0.3	=0.05	-	-	Rem	=0.2
CW608N / CuZn38Pb2	60–61	1.6–2.2	=0.2	=0.2	=0.2	=0.05	-	-	Rem	=0.2
CW603N / CuZn36Pb3	60–62	2.5–3.5	=0.2	=0.3	=0.3	=0.05	-	-	Rem	=0.2
CW612N / CuZn39Pb2	59–60	1.6–2.2	=0.3	=0.3	=0.2	=0.05	-	-	Rem	=0.2
CW607N / CuZn38Pb1	60–61	0.8–1.6	=0.2	=0.2	=0.2	=0.05	-	-	Rem	=0.2
CW602N / CuZn36Pb2As	61–63	1.7–2.2	=0.1	=0.1	=0.2	=0.05	-	-	Rem	=0.2
CW625N / CuZn35Pb1.5AlAs	62–64	1.2–1.6	=0.3	=0.3	=0.2	0.05–0.70	-	-	Rem	=0.2
CW626N / CuZn33Pb1.5AlAs	64–66	1.2–1.6	=0.3	=0.3	=0.2	0.80–1.00	-	-	Rem	=0.2
CW511L / CuZn38As	61.5–63.5	=0.02	=0.1	=0.1	=0.1	=0.05	-	-	Rem	=0.2
CW510L / CuZn42	57–59	=0.02	=0.1	=0.1	=0.1	=0.05	-	-	Rem	=0.2
CW508L / CuZn37	57–59	2.5–3.5	=0.3	=0.3	=0.3	=0.05	-	-	Rem	=0.2
CW722R / CuZn40Mn1Pb1FeSn	56.5–58.5	1.0–1.5	=0.2	0.5–0.7	=0.1	=0.05	1.1–1.3	-	Rem	=0.2
CW624N / CuZn43Pb2Al	57–59	1.6–2.5	=0.2	=0.2	=0.1	0.25–0.30	-	-	Rem	=0.2
CC757S / CuZn39Pb1Al-C	59–60.5	0.8–1.3	=0.2	=0.15	=0.2	0.50–0.70	-	-	Rem	=0.2
CC770S / CuZn36Pb-C	62–64	0.2–1.6	=0.3	=0.3	=0.2	0.50–0.70	-	-	Rem	=0.2

UBA & 4MS list approved production is available | Different alloys will be available upon request

DIMENSIONAL TOLERANCES

APPLICABLE STANDARDS

- EN 12164 - Free Machining Rods
- EN 12165 - Hot Forging Rods
- EN 12168 - Hollow Rods
- EN 12167 - Profiles & Flats

GENERAL NOTES

- Dimensions in millimeters (mm)
- Tolerances according to EN standards
- Other dimensions and tolerance classes available upon request
- Special tolerances for CNC applications available
- Hollow rods available in drawn or extruded condition
- Surface quality: bright, polished, turned or matte finish
- Straightness and ovality values available upon request

ROUNDS / HEXAGONAL / SQUARE (MM)

Diameter Range	h9	h10	h11	Class A	Class B
5 – 6	-0.05	-0.03	-0.08	-	-
6 – 10	-0.06	-0.036	-0.09	±0.25	±0.14
10 – 13	-0.07	-0.043	-0.11	±0.25	±0.14
13 – 18	-0.07	-0.043	-0.11	±0.25	±0.14
18 – 20	-0.08	-0.052	-0.13	±0.30	±0.17
20 – 23	-0.08	-0.052	-0.13	±0.30	±0.17
23 – 26	-0.08	-0.052	-0.13	±0.30	±0.17
26 – 30	-0.08	-0.052	-0.13	±0.60	±0.20
30 – 50	-0.16	-	-0.16	±0.70	±0.37
50 – 55	-0.19	-	-0.19	±0.70	±0.37
55 – 65	-0.19	-	-	±0.70	±0.37
65 – 80	-0.19	-	-	±0.70	±0.37
80 – 110	-	-	-	±2	-

MECHANICAL PROPERTY REFERENCE (Typical Values)

Alloy	Rm (MPa)	Rp0.2 (MPa)	Elongat ion (%)	Hardness (HB)	Machinab ility (%)
CW614N	490 – 540	210 – 280	10 – 15	130 – 160	100
CW617N	430 – 500	200 – 270	15 – 25	120 – 150	80
CW602N	430 – 520	200 – 290	18 – 30	120 – 150	70
CW608N	400 – 480	180 – 250	18 – 30	110 – 140	65
CW511L	350 – 420	150 – 200	25 – 35	90 – 120	45
CW508L	350 – 450	150 – 210	25 – 40	90 – 130	30

• Lead-Free / DZR Brass

MANUFACTURING STANDARDS

- EN 12164 - Free machining brass rods
- EN 12165 - Brass rods for hot forging
- EN 12167 - Brass profiles and flats
- EN 12168 - Brass hollow rods
- EN 1982 - Copper and copper alloys – Ingots and castings
- ASTM B16 / B453 - Copper and copper alloy rod, bar and shapes
- DIN MS58 - CuZn39Pb3 equivalent to CW614N
- Other international standards available upon request

PRODUCT FORMS & APPLICATIONS

RODS

Round, Hexagonal, Square, Flat

HOLLOW BARS

Drawn or Extruded Hollow Rods

PROFILES

Special Profiles, Flats & Bars

BILLETS

Cast Billets for Further Processing

FORGING STOCK

Hot Forging Applications

CNC MACHINING

High Precision Components

DZR BRASS

Corrosion Resistant / Lead-Free Options

LEAD-FREE BRASS

Sustainable & Environmentally Friendly Solutions



BRONZE PRODUCTS



**BRONZE
INGOTS**



**BRONZE
BUSHINGS / SLEEVES**



**PHOSPHOR BRONZE
INGOTS**



**BRONZE
PLATES / SHEETS**



**BRONZE
RODS / BARS**



**BRONZE
STRIPS / FOILS**



**BRONZE
WIRES**



**BRONZE
TUBES**

BRONZE INGOTS

High quality tin bronze ingots produced for casting and semi-finished applications.

TYPICAL ALLOYS

- CuSn6
- CuSn8
- CuSn10
- CuSn12
- Lead Bronze Alloys

TECHNICAL INFORMATION

- Production Method: Continuous Casting
- Weight Range: 10 – 500 kg
- Shape: Ingot / Block
- Surface: As-Cast
- Density: 8.7 – 8.9 g/cm³

APPLICATIONS

- Casting
- Foundry
- Bearings
- Bushings
- Valves
- Marine Parts



PHOSPHOR BRONZE INGOTS

Phosphor bronze ingots with excellent spring properties, electrical conductivity and corrosion resistance.

TYPICAL ALLOYS

- CuSn6P
- CuSn8P
- CuSn10P

TECHNICAL INFORMATION

- Phosphorous Content: 0.03 – 0.35%
- Density: 8.8 – 8.9 g/cm³
- Conductivity: Medium
- Mechanical Strength: High

APPLICATIONS

- Springs
- Electrical Contacts
- Connectors
- Precision Parts



BRONZE RODS / BARS

High strength bronze rods and bars for machining and industrial engineering applications.

TYPICAL ALLOYS

- Round Bars
- Square Bars
- Flat Bars
- Hexagonal Bars

TECHNICAL INFORMATION

- Diameter Range: Ø10 – Ø500 mm
- Length: 500 – 4000 mm
- Production Method: Extruded / Continuous Cast
- Surface: Machined / As-Cast

APPLICATIONS

- Machining
- Bearings
- Gears
- Bushings
- Industrial Parts



BRONZE HOLLOW RODS

Hollow bronze bars designed for material-saving machining and bearing production.

TECHNICAL INFORMATION

- OD Range: Ø20 – Ø500 mm
- ID Range: Ø10 – Ø400 mm
- Wall Thickness: Min. 5 mm
- Production Method: Centrifugal Casting / Extrusion

APPLICATIONS

- Bushings
- Sleeves
- Valve Bodies
- Pumps



BRONZE TUBES

Seamless and extruded bronze tubes for hydraulic, marine and industrial applications.

TYPES

- Seamless Tubes
- Extruded Tubes
- Condenser Tubes

TECHNICAL INFORMATION

- OD Range: Ø6 – Ø300 mm
- Wall Thickness: 0.8 – 20 mm
- Length: 1000 – 6000 mm
- Production Method: Seamless / Extruded

APPLICATIONS

- Heats Exchanger
- Marine Systems
- Hydraulic Systems
- Industrial Engineering



TYPICAL INDUSTRIES



MARINE



AUTOMOTIVE



INDUSTRIAL



HYDRAULICS



ENERGY



PUMPS
& VALVES



HEAVY
ENGINEERING

BRONZE WIRES

Precision drawn bronze wires for springs, electrical contacts, connectors and a wide range of industrial applications.

TYPICAL ALLOYS	TECHNICAL INFORMATION	APPLICATIONS
• CuSn4 • CuSn5 • CuSn6 • CuSn8 • CuSn10 • CuSnP Alloys	• Diameter Range: Ø0.10 – Ø12.00 mm • Temper: Soft / Half Hard / Hard • Production Method: Cold Drawn • Surface: Bright / Oxide-Free • Tensile Strength: 350 – 950 Mpa • Conductivity: Medium	• Springs • Electrical Contacts • Connectors • Relay Systems • Switch Systems • Precision Electronics • Marine Equipment • Industrial Wire Products



BRONZE PLATES / SHEETS

Flat rolled bronze plates and sheets with excellent wear resistance, good machinability and high mechanical strength.

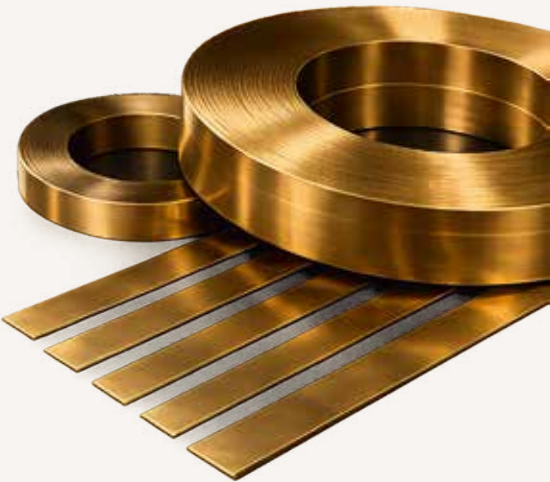
TYPICAL ALLOYS	TECHNICAL INFORMATION	APPLICATIONS
• CuSn6 • CuSn8 • CuSn10 • CuSn12 • CuAl10Ni5Fe4	• Thickness: 0.50 – 120 mm • Width: Up to 1500 mm • Length: Up to 4000 mm • Surface: Hot Rolled / Cold Rolled • Temper: Soft / Half Hard / Hard	• Wear Plates • Bearings • Industrial Machinery • Marine Applications • Heavy Engineering • Structural Components



BRONZE STRIPS / FOILS

Cold rolled bronze strips and foils for electrical, electronic and precision engineering applications.

TYPICAL ALLOYS	TECHNICAL INFORMATION	APPLICATIONS
• CuSn4P • CuSn6P • CuSn8P • CuSn10P	• Thickness: 0.05 – 3.00 mm • Width: 5 – 600 mm • Surface: Bright / Matte • Production Method: Cold Rolled • Edge: Slit Edge	• Electrical Contacts • Connectors • Springs • Precision Electronics • Switch Components • Relay Systems



TYPICAL INDUSTRIES


ELECTRICAL & ELECTRONICS


AUTOMOTIVE


INDUSTRIAL


MARINE


MANUFACTURING


PRECISION ENGINEERING

BRONZE BUSHINGS & SLEEVES

Bronze bushings and sleeves are high-performance bearing components designed for heavy-duty industrial applications requiring low friction, wear resistance and long operational life. Widely used in hydraulic systems, presses, mining equipment and industrial machinery.

PRODUCT TYPES

- Solid Bushings
- Flanged Bushings
- Graphite Plugged Bushings
- Self-Lubricating Bushings
- Centrifugal Cast Bushings
- Continuous Cast Bushings
- Bronze Sleeves/Wear Rings

TYPICAL ALLOYS

TIN BRONZE

- CuSn7Zn4Pb7 (Rg7)
- CuSn10
- CuSn12

ALUMINIUM BRONZE

- CuAl10Ni5Fe4
- CuAl10Fe5Ni5

HIGH STRENGTH BRONZE

- CuZn25Al5Mn4Fe3

TECHNICAL FEATURES

- Excellent wear resistance
- Low friction coefficient
- High compressive strength
- Good sliding performance
- Long service life
- Corrosion resistance
- Suitable for heavy loads



PRODUCTION METHODS



CENTRIFUGAL
CASTING



CONTINUOUS
CASTING



MACHINING



GRAPHITE
PLUGGING



FINISH
TURNING



QUALITY
CONTROL

APPLICATIONS

- Hydraulic Cylinder
- Injections Molding Machines
- Cranes & Presses
- Mining Equipment
- Marine Systems
- Pump Systems
- Steel Industry Machinery
- Heavy Engineering

INDUSTRIES SERVED

- Heavy Industry
- Marine & Offshore
- Mining
- Hydraulics
- Industrial Machinery
- Automotive
- Steel Industry
- Energy Systems
- Construction



ALUMINUM PRODUCTS



**ALUMINUM
BILLET**



**ALUMINUM
TUBES**



**ALUMINUM
WIRE ROD**



**ALUMINUM
WIRE**



**ALUMINUM
BAR / RODS**

ALUMINUM BILLET

Cast aluminum billets with a vast range of alloys beginning from 1xxx to 7xxx.

Billets are produced mainly from clean industrial scraps with an average scrap usage of 80%–100%. For special alloys, 100% primary material is used if needed.

Billets can be scalped upon customer request.



DIAMETERS

Diameter	mm
5"	127 mm
6"	152 mm
7"	178 mm
8"	203 mm
9"	228 mm
10"	254 mm
26"	660 mm
32"	816 mm

ALLOYS

Series	Alloys
1xxx	1070, 1080
2xxx	2014, 2017, 2024
3xxx	3003
5xxx	5083, 5754
6xxx	6005, 6060, 6063, 6061, 6082
7xxx	7012, 7021, 7050, 7060, 7075

Our billets are suitable for:

- Extrusion
- Forging applications

Maximum billet length for all diameters 7000 mm

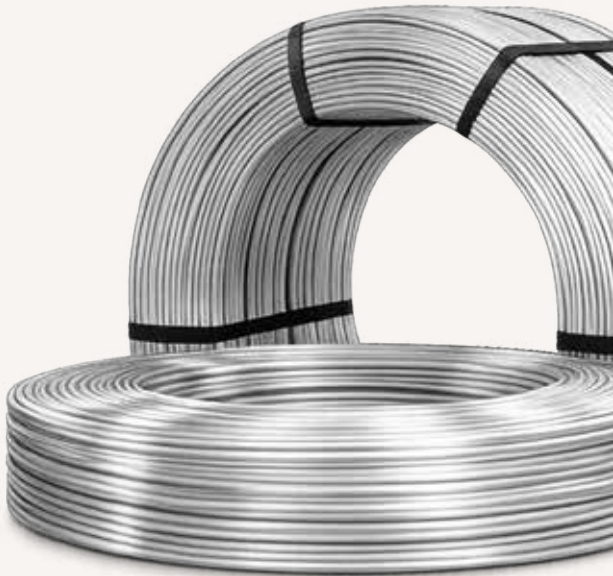
Billets can be cut shorter upon request.
:

ALUMINUM WIRE ROD

Aluminum Continuous Casting and Rolling lines are designed to continuously produce pure electrical conductor quality aluminum rods of:

- A7E (purity 99.7%)
- A8 (purity 99.8%)

and alloy conductor quality aluminum rod coils directly from pure molten metal.



TECHNICAL INFORMATION

Diameter Range

- 9.5 mm
- 12.0 mm
- 15.0 mm

Coil Weight

- 1500 – 2500 kg

Packaging

- Steel Strapped Coils

APPLICATION AREAS

Suitable for

- Electrical conductors
- Cable production
- Drawing applications
- Transformer industry
- Overhead conductor systems

FEATURES

- High electrical conductivity
- Excellent drawability
- Uniform surface quality
- Continuous casting & rolling process
- Suitable for fine wire production
- Heat-treatable alloy production available

Available tempers:

- F (As Fabricated)T4 (Thermally Treated)

STANDARD

- EN AW 1370S

PACKAGING OPTIONS

- Available coil configurations:
- Eye to Side
- Eye to Sky

Packaging materials:

- Paperboard protection
- Plastic shrink wrappingWooden pallets

ALUMINUM WIRES & CONDUCTORS

TECHNICAL OVERVIEW

High quality aluminum wire and conductor solutions for electrical transmission, cable manufacturing, transformer systems and industrial applications. Manufactured according to international standards with excellent conductivity, mechanical performance and corrosion resistance.

PRODUCT GROUPS

- Hard Drawn Aluminum Wire
- AA6101 / AA6201 Aluminum Alloy Wire
- CCA Copper Clad Aluminum Wire
- AAC Conductors / AAAC Conductors
- ABC / NFA2X Aerial Bundled Cables
- Enamelled Aluminum Magnet Wires



HARD DRAWN ALUMINUM WIRES



STANDARDS

- ASTM B230
- EN 17152
- IEC 60889

MATERIAL

- EC Grade
- Aluminum (1350/1370 Series)

DIAMETER RANGE

- 1.20 mm – 5.00 mm

REEL SIZES

- 600 mm
- 1200 mm
- 2400 mm

MECHANICAL PROPERTIES

- High tensile strength
- Excellent conductivity-to-weight ratio
- Good corrosion resistance
- Suitable for overhead and electrical applications

APPLICATIONS

- Cable manufacturing
- Overhead transmission lines
- Earthing systems
- Automotive cable sector
- Electrical conductors

AA6101 ALUMINUM ALLOY WIRES



STANDARDS

- ASTM B398
- IEC 62004

ALLOY

- Aa6101

DIAMETER RANGE

- 2.50 mm
- 3.00 mm

FEATURES

- High electrical conductivity
- Better mechanical strength than EC aluminum
- Good bending properties
- Excellent corrosion resistance

APPLICATIONS

- Busbar production
- Transformer conductors
- Electrical connectors
- Power distribution systems

AA6201 ALUMINUM ALLOY WIRES



STANDARDS

- ASTM B398
- IEC 62004

ALLOY

- AA6201

DIAMETER RANGE

- 4.00 mm
- 5.00 mm
- 6.00 mm

FEATURES

- High tensile strength
- Improved sag resistance
- Good conductivity
- Long service life in overhead systems

APPLICATIONS

- AAAC conductors
- Overhead transmission lines
- Power distribution networks

AAC – ALL ALUMINUM CONDUCTORS



STANDARDS

- IEC 61089
- ASTM B231
- BS 215

CROSS SECTIONS

- 16 mm² – 800 mm²

FEATURES

- Excellent electrical conductivity
- Lightweight structure
- Good corrosion resistance
- High flexibility

APPLICATIONS

- Short-span overhead lines
- Urban power distribution
- Coastal installations

AAAC – ALL ALUMINUM ALLOY CONDUCTORS



STANDARDS

- IEC 61089
- ASTM B399
- BS 3242

CROSS SECTIONS

- 16 mm² – 800 mm²

ALLOY

- Aa6201 Aluminum Alloy

FEATURES

- Higher tensile strength than AAC
- Better corrosion resistance
- Reduced conductor sag
- Longer transmission span capability

APPLICATIONS

- Medium & high voltage overhead lines
- Coastal and industrial areas
- Power transmission systems



GLOBAL
NETWORK



QUALITY
ASSURANCE



TRUSTED
PARTNER



RELIABLE
SUPPLY

GLOBAL INDUSTRIAL
METAL SUPPLY SOLUTIONS



VALMETO
GLOBAL TRADE

ALUMINUM WIRES & CONDUCTORS

CCA COPPER CLAD ALUMINUM WIRES



ADVANTAGES

- Lower weight than copper
- Better conductivity than pure aluminum
- Cost-effective alternative to copper
- Good solderability

APPLICATIONS

- Coaxial cables
- Data cables
- RF applications
- Telecom conductors
- Electronic components

STANDARDS

- ASTM B566
- IEC 60317 (depending on insulation type)

CONSTRUCTION

- Aluminum core with copper cladding

DIAMETER RANGE

- 0.50 mm – 2.60 mm

ABC / NFA2X AERIAL BUNDLED CABLES



STANDARDS

- NFC 33-209
- IEC 60502-1

VOLTAGE RATING

- 0.6 / 1 kV

CONSTRUCTION

- Aluminum phase conductors
- XLPE insulation
- Messenger neutral conductor

CONFIGURATION TYPES

- Single Core
- Duplex
- Triplex
- Quadruplex
- Neutral supported systems

AVAILABLE SIZES

- 1x16 – 4x150 mm²
- 3x25+16 – 3x150+70 mm²

FEATURES

- UV resistant insulation
- Suitable for outdoor installations
- Reduced power losses
- Improved operational safety
- Easy installation in urban networks

APPLICATIONS

- Low voltage overhead distribution
- Residential power networks
- Industrial energy distribution
- Rural electrification projects

ENAMELLED ALUMINUM WIRES



FEATURES

- High thermal resistance
- Excellent dielectric properties
- Good winding performance
- Chemical and abrasion resistance

APPLICATIONS

- Transformers
- Electric motors
- Generators
- Coils and inductors
- Automotive electrical systems

STANDARDS

- IEC 60317
- NEMA MW 1000

THERMAL CLASSES

- H Class - 180°C
- HC Class - 200°C

DIAMETER RANGE

- H Class**
- 0.18 mm – 6.00 mm
- HC Class**
- 0.20 mm – 4.00 mm

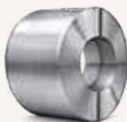
GENERAL PACKAGING



WOODEN REELS



STEEL REELS



COIL PACKAGING



STRETCH FILM PROTECTION



EXPORT SEAWORTHY PACKAGING AVAILABLE

CERTIFICATIONS



Test certificates available upon request.

ALUMINUM BARS / RODS

PRODUCT TYPES

- Extruded Aluminum Rods
- Drawn Aluminum Bars
- Round Bars
- Flat Bars
- Square Bars
- Hexagonal Bars
- Precision CNC Bars

STANDARDS

- EN 573
- EN 754
- EN 755
- ASTM B221
- ASTM B211
- DIN / JIS equivalents available



AVAILABLE ALLOYS

1XXX SERIES



COMMERCIAL PURE

- Aluminum
- 1050A
- 1070
- 1350

FEATURES

- Very high electrical conductivity
- Excellent corrosion resistance
- Good formability

APPLICATIONS

- Electrical busbars
- Conductors
- Chemical industry

2XXX SERIES



ALUMINUM-COPPER ALLOYS

- 2011
- 2014
- 2024

FEATURES

- High mechanical strength
- Excellent machinability
- Good fatigue resistance

APPLICATIONS

- Aerospace
- CNC machining
- Mechanical components

5XXX SERIES



ALUMINUM-MAGNESIUM ALLOYS

- 5005
- 5052
- 5083
- 5754

FEATURES

- Excellent corrosion resistance
- Marine-grade properties
- Good weldability

APPLICATIONS

- Marine industry
- Pressure vessels
- Structural parts

6XXX SERIES



ALUMINUM-MAGNESIUM-SILICON ALLOYS

- 6060 • 6063 • 26101
- 6061 • 608 • 6201

FEATURES

- Medium to high strength
- Excellent extrusion capability
- Good anodizing surface
- Good machinability

APPLICATIONS

- Construction systemsCNC machining
- Electrical applications
- Automotive industry

7XXX SERIES



ALUMINUM-ZINC ALLOYS

- 7075

FEATURES

- Very high strength
- Excellent mechanical performance
- Aerospace-grade alloy

APPLICATIONS

- Defense industry
- Aerospace
- High-load mechanical parts

SPECIAL PRODUCT FOCUS

6061 CNC BARS



- High precision machining
- Excellent surface finish
- Ideal for CNC turning and milling

6082 STRUCTURAL BARS



- High mechanical strength
- Excellent machinability
- Suitable for heavy-duty industrial applications

SOLAR PROFILE APPLICATIONS



- Suitable for solar mounting systems
- Good anodizing quality
- Lightweight & corrosion resistant

SHAPES & DIMENSIONS

ROUND BARS

- Drawn: Ø 3 mm – Ø 120 mm
- Extruded: Ø 10 mm – Ø 450 mm

FLAT BARS

- Thickness: 3 mm – 80 mm
- Width: 10 mm – 300 mm

SQUARE BARS

- 5 x 5 mm – 200 x 200 mm

HEXAGONAL BARS

- AF 6 mm – 120 mm

TEMPER CONDITIONS

- O
- H111
- H112
- T4
- T5
- T6
- T651

MECHANICAL PROPERTIES

Typical Properties (6061-T)

- Tensile Strength: ~290
- MpaYield Strength: ~240 Mpa
- Elongation: ~8–12%Density: 2.70 g/cm³

Typical Properties (6082-T6)

- Tensile Strength: ~310 Mpa
- Yield Strength: ~260 Mpa
- Excellent machining capability

SURFACE CONDITIONS

- Mill Finish
- Bright Finish
- Anodized
- Polished
- Brushed

APPLICATIONS

- CNC machining
- Automotive components
- Electrical conductors
- Busbar systems
- Mold manufacturing
- Machinery partsMarine industry
- Architectural systems
- Aerospace applications
- Solar mounting systems

PACKAGING

- Wooden crates
- PVC protected bundles
- Paper interleaving
- Export seaworthy packing



GLOBAL
NETWORK



QUALITY
ASSURANCE



TRUSTED
PARTNER



RELIABLE
SUPPLY

GLOBAL INDUSTRIAL
METAL SUPPLY SOLUTIONS



VALMETO
GLOBAL TRADE

ALUMINUM TUBES

PRODUCT TYPES

- Seamless Aluminum Tubes
- Extruded Tubes
- Drawn Precision Tubes
- Round Tubes
- Square Tubes
- Rectangular Tubes
- Structural Tubes Thin Wall Tubes

STANDARDS

- EN 754
- EN 755
- ASTM B210
- ASTM B221
- ASTM B241
- DIN / JIS equivalents available

AVAILABLE ALLOYS

- General Industrial Alloys
- 1050A • 5754
- 3003 • 6060
- 5005 • 6061
- 5052 • 6063
- 5083 • 6082



SPECIAL PRODUCT FOCUS

6063 ALUMINUM TUBES



- Excellent surface quality
- Very good anodizing capability
- Ideal for architectural systems

HVAC & HEAT EXCHANGER TUBES



- Good thermal conductivity
- Lightweight structure
- Easy fabrication and bending
- Suitable for cooling systems

DIMENSION RANGE

ROUND TUBES

- Outer Diameter: Ø 4 mm – Ø 350 mm
- Wall Thickness: 0.5 mm – 25 mm

SQUARE TUBES

- 10 x 10 mm – 200 x 200 mm

RECTANGULAR TUBES

- 20 x 10 mm – 300 x 150 mm

TEMPER CONDITIONS

- O
- H111
- H112
- T4
- T5
- T6

TECHNICAL FEATURES

6063 Alloy

- Excellent surface quality
- Very good anodizing capability
- Ideal for architectural systems

6061 Alloy

- High mechanical strength
- Good weldability
- Excellent machinability

5083 Alloy

- Marine-grade corrosion resistance
- Excellent seawater performance
- High structural strength

MECHANICAL PROPERTIES

Typical 6063-T5

- Tensile Strength: ~190 Mpa
- Yield Strength: ~150 Mpa

Typical 6061-T6

- Tensile Strength: ~290 Mpa
- Yield Strength: ~240 Mpa

SURFACE TYPES

- Mill Finish
- Anodized
- Powder Coated
- Polished
- Brushed

PACKAGING

- Bundled packing
- PVC wrapped ends
- Wooden boxes
- Export seaworthy packaging

APPLICATIONS

- HVAC systems
- Pneumatic systems
- Automotive industry
- Furniture industry
- Solar energy systems
- Construction profiles
- Heat exchangers
- Marine applications
- Industrial machinery
- Structural applications

SPECIAL FEATURES

- Lightweight structure
- High corrosion resistance
- Excellent thermal conductivity
- Good weldability
- Easy fabrication
- High strength-to-weight ratio

CERTIFICATIONS



EN 10204 3.1 Test Certificate
available upon request.



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