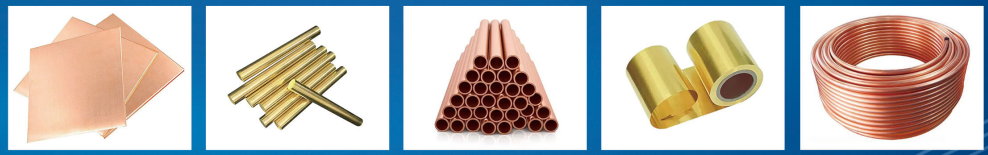
專注品質 | 質量第一 | 共赢未來

FOCUS ON QUALITY FIRST QUALITY AND WIN-WIN FUTURE

Hailiang copper

Copper | Brass | Bronze | NickelAlloy Copper



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Jiangsu Hailiang Dongfang Import and Export co.,Ltd

Introduction

Jiangsu Hailiang Dongfang Import and Export Co., Ltd. is a professional supplier of high-quality copper products, including pure copper, brass, and bronze in forms such as plates, pipes, coils, bars, and wire. With over 20 years of experience, we operate our own factories in Jiangsu, Zhejiang, Shanghai, and Shandong, along with trusted partner facilities, ensuring competitive prices, fast delivery, and strict quality control backed by third-party inspection and standards such as ASTM and ISO. Our global reach and commitment to excellence make us a trusted partner for industries requiring reliable copper solutions.

TABLE OF COMTENT

R&D STRENGTH

The company has a R&D Center of state level and a Materials & Processing Engineering Technology Research Center for Nonferrous Industry Copper and Copper Alloy . Scientific research achievements: Over the years, the company has undertaken important national scientific research projects, obtained a number of scientific and technological achievements and patents for invention above the provincial and ministerial level, and developed a large number of high-performance alloy materials related to the fields of electronics, communications, rail transit, and new energy, such as strips for lead frame, euro coinage, transformer, RF cable, plate for cooling stave, silver-containing oxygen-free copper plate, large-diameter copper pipe, etc.

Principlally draft industry standards: The company is the main setter of the current national and industry standard of China's copper processing industry. The revised standards account for 41% of the current national and industry standards of the copper processing industry.

TESTING STRENGTH

China National Accreditation Service for Conformity Assessment

China Nonferrous Metal Industry Heavy Metal Processing Material Inspection Station

RMP approved by CNAS

COPPER CASTING SYSTERM

Since the company has produced China Is first bronze ingot in 1960, its melting and casting technology has always been at the world Is advacountries such as USA, France, Germany, Sweden, etc., and has strong melting and casting capabilitiesnced level. In recent years, the company has introduced multiple main equipments from developed . The weight of a single ingot is 10 tons with length of 10 meters.

COPPER CASTING PRODUCTS

Copper Kind: Oxygen-free copper, pure copper, phosphorized copper, silver copper

Specification range of flat ingot: 170～290mmX620～1310mmX～

Specification range of round ingot: φ195mm～φ410mmX～

Copper Master Kind

Chromium bronze round ingot: φ195-360mmX～

Iron copper flat ingot: 210-230mmX620mmX～

Brass Kind: Normal brass, Lead brass, Tin brass, Aluminum brass, Manganese brass, Nickel brass, Iron brass, Silicon brass

Specification range of flat ingot: 170～290mmX620～1050mmX～

Specification range of round ingot: φ195mm～φ410mmX～

Bronze Kind: Tin bronze, Aluminum bronze, Silicon bronze

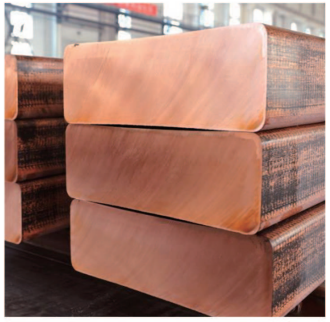
Specification range of flat ingot: 140/170X620/650mmX～

Specification range of round ingot: φ195mm～φ360mmX～

Copper-nickel Alloy Kind: Normal Copper-nickel alloy, Iron Copper-nickel alloy, Zinc Copper-nickel alloy

Specification range of flat ingot: 140～170X620～1050mmX～

Specification range of round ingot: φ195mm～φ410mmX～

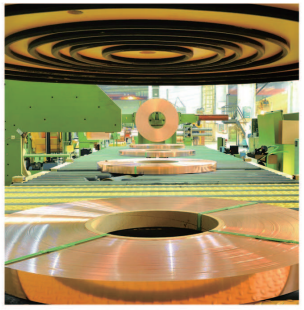


COPPER & COPPER ALLOY SHEET AND STRIP PRODUCTIONSYSTEM

The sheet and strip production lines have world-class equipments and advanced technology with an annual production capacity of 150,000 tons. In recent years, the company has successively introduced dozens of advanced equipments such as blooming mills, finishing cold mills, annealing furnace groups, cleaning machine lines, stretch-bending leveling lines, slitting lines, etc. from developed countries such as Germany, Italy, Japan, and Switzerland. With these machines, the company has establised several high-precision electronic copper strip production lines. Available products cover national standard, American standard, Japanese standard, European standard, German standard, industry standard and customized products higher than the standard. The highest accuracy of products can be controlled is +/-0.003mm.



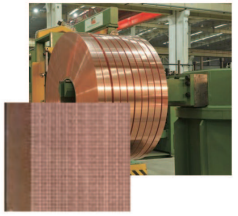




TYPICAL PRODUCTS AND APPLICATION OF COPPER & COPPER ALLOY PLATE&STRIP

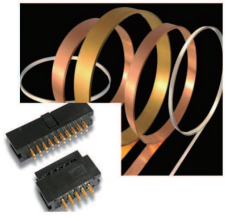
Copper Strip for Electronic Lead frame

The company took the lead in the development and mass production of copper strip for IC Lead Frame the main alloy of which are C19200, C19400,C70250 and copper master alloy. They are widely used in emerging industry, such as high energy & density integrated circuits, 5G, AI and vehicle interconnection.The capacity is 2500MT/month, and current actual output is 2000MT/month which accounts for about 15% of the domestic market share.



Copper Strip for Connector

Main products: brass strip, oxygen-free copper strip, silver copper strip, copper master alloy strip and so on. They are mainly used in vehicle, mobile phone, industrial connection. The auto parts manufacturers the company supplied include Bosch, DELPHI, Valeo, IRISO, Continental Automotive，Magna, etc.



Copper Strip for RF Cable

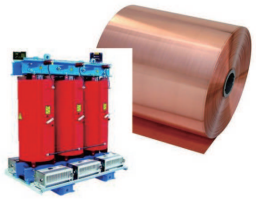
The company has taken the lead in the development of high-quality copper strip for RF Cable in China, and has realized import substitution. It is mainly supplied for well- known enterprises such as American COMMSCOPE.

Brass strip for weaponry

High-performance brass strips are widely used in weaponry field.

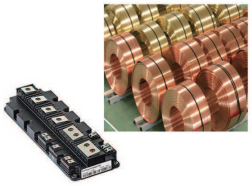
Copper strip for Transformer

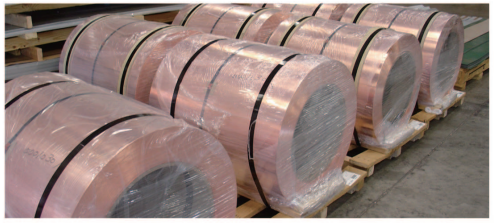
The company has taken the lead in the development of high- quality copper strip for Transformer in China, and has realized import substitution. The company mainly cooperate with domestic large-scale STATE GRID customers, and foreign funded enterprises such as SCHNEIDER, ABB, SIEMENS,etc.

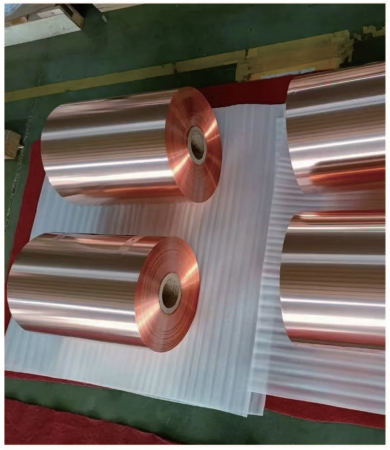


Copper&Brass Plate&Strip

They are widely used in many fields, such as rail transit, new energy vehicles, aerospace, mechanical processing, military industry, IGBT modules, hardware, musical instruments, home appliances, and switches, fuses, circuit breakers in power and electricity.







BASIC PARAMETERS

COPPER

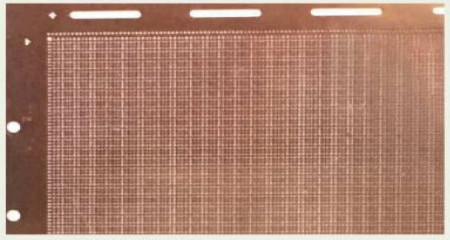
Alloy	Product	Temper	Size (mm)		Main characteristics
			Thickness	Width	
TU1 TU2 C1100、C11000 C10200 C10300 C1100	Copper foil	Y	0.09～0.12	≤600	Rm≥295Mpa
			>0.12～0.15	≤600	
TU1 TU2 C1100、C11000 TP1 TP2 C1100 C10200 C10300	Copper strip	060、H01、H02、H04	>0.15～<0.50	≤610	Thickness≥0.2mm 060 ： Rm≥195Mpa A11.3≥30%; H01：Rm 215～295Mpa A11.3≥25%; H02：Rm 245～345Mpa A11.3≥8% ; H04： Rm 295～395Mpa A11.3≥3%。
			0.5～3.0	≤1000	
C10500A	Oxygen-free silver copper strip	3/4Y	0.25～1.50	≤600	Negotiation
C10700A	Oxygen-free silver copper strip	M	4.0	≤600	Negotiation
		Y	0.205～4.0	≤600	Negotiation
TAg0.1	Silver Copper Strip	Y2	0.15～2.5	≤600	Negotiation
TU1 TU2 TU3 C10200 C10300	Cable strip	060、080、081	0.10～0.70	20～305	060：Rm200～260Mpa A11.3≥35%; 080：Rm220～275Mpa A11.3≥32%; 081：Rm235～290Mpa A11.3≥30%
C1100、C11000 TP1					060：Rm220～270Mpa A11.3≥30%; 080：Rm230～285Mpa A11.3≥28%; 081：Rm245～300Mpa A11.3≥25%
TU1	Transformer strip	060	0.1～0.12	≤300	Rm 195～260Mpa A11.3≥35% TU1Conductivity ≥100%IACS C1100、C11000：Conductivity≥98%IACS
			>0.12～<0.40	≤600	
			0.4～2.5	≤1020	
C10100 TU1 LC1011	Oxygen-free copper strip	060、H01、H02、H04	>0.15～<0.50	≤610	Negotiation
			0.5～2.5	≤1000	
C1100、C11000	For decoration	Y	0.5～2.5	600～1000	Negotiation

Typical applications: IC frames, LEDs, photovoltaics, radio frequency cables, transformers, new energy vehicles and other fields.

High performance copper alloy

Alloy	Product	Temper	Size (mm)		Main characteristics
			Thickness	Width	
TFe0.1 C19210	Lead frame strip	060、H01、H02、H04、H06	0.10～3.0	≤600	Negotiation
TFe2.5 C19400		060、H01、H02、H04、H06、H08、H10			
CuNi2Si	Nickel Silicon Bronze	Y	2.0～3.0	≤600	Negotiation
C70250	Nickel Silicon Bronze	TM00、TM02、TM03	0.10～2.0	18～610	Tensile force, hardness and conductivity performance according to Negotiation。

Typical applications: lead frames, connectors, bearings, gears, valve seats, precision instruments and elastic components.



COPPER-NICKEL

Alloy	Product	Temper	Size (mm)	
			Thickness	Width
BZn15-20	Zinc copper-nickel	060、H02、H04、H06	0.5～4.0	50～600
B19	copper-nickel	060、H04	0.2～0.4	20～600
			>0.4～1.2	80～600
BFe10-1-1	Iron Manganese Copper-nickel	060、H04	0.1～0.4	20～600
			>0.4～1.2	80～600

Typical applications: various connectors, high-current servers, integrated circuits, discrete devices, home improvement, coinage, etc.

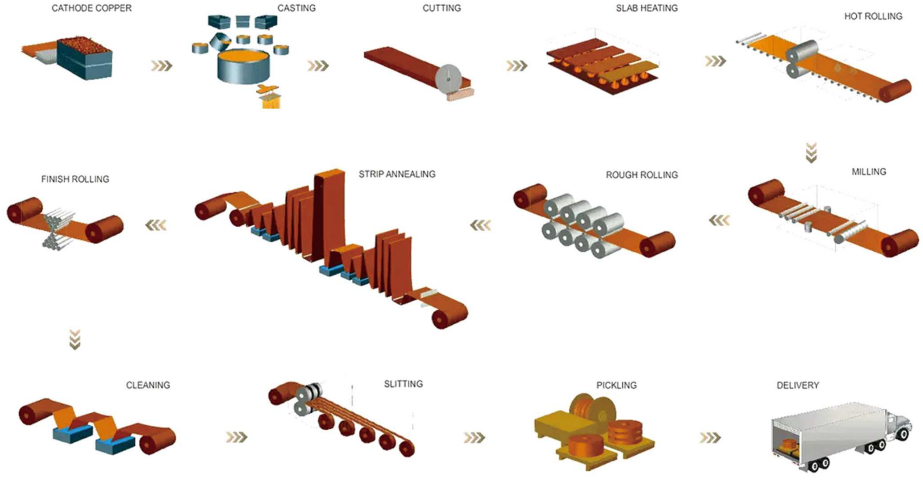
BASIC PARAMETERS

BRASS

Alloy	Product	Temper	Size (mm)	
			Thickness	Width
H68 C2680 C28000	Foil	TY、Y、M	0.10～0.12	≤300
			>0.12～0.15	≤600
C2600 、C26000 H68 H66 C2680	Strip	060、H01、H02、H04、H06、H08	>0.15～<0.50	≤600
			0.5～3.0	≤1000
C23000 C22000	Strip Strip	060、H02、H04	>0.15～<0.50	≤600
			0.5～3.0	≤600
H80 C21000	Strip Strip	060、H04	>0.15～<0.50	≤600
			0.5～3.0	≤600
C28000 C27200	Strip	060、H02、H04、H06	>0.15～<0.50	≤600
			0.5～3.0	≤1000

Typical applications: electronic connectors, architectural decoration, advanced clock components, instrumentation, button decoration, hardware, household appliances and other fields.

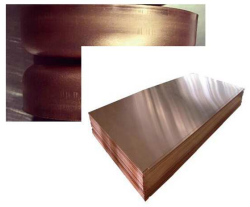
MACHINING PROCESS



Strip for Construction Decoration

They are widely used in decoration, such as construction copper door,curtain wall. Typical cases of exterior wall application: Beijing Yanqi Lake International Convertion & Exhibition Center, Shanghai Expo China Railway Pavilion, Luoyang Tiantang Ruins, Wuhan Qintai Grand Theatre, G20 Hangzhou Summit venue, Hangzhou Leifeng Pagoda, New York First Avenue Building, etc.

Oxygen-free Copper Plate & Strip



They are mainly used in the field of high current and high voltage transmission, such as electrical materials, electronic vacuum devices, new energy vehicles, high energy circuit boards and other fields with high conductivity requirements. The company has long-term cooperation with a lot of well-known enterprises, for example, Xuguang, Baoguang, Yuguang, ABB.

Wide-Thick Plate Production Line

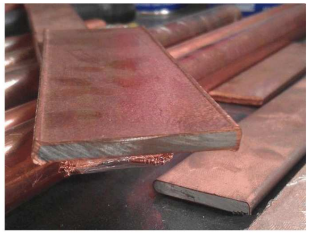
Main application: it can produce super-wide and super-thick non-ferrous metal plates, providing high-quality products for metallurgy, shipbuilding, nuclear power and other fields. Among them, furnace wall, nuclear power plate and marine tube plates, have unique market advantages. In 1962, the company rolled the first oversize copper plate in China ,which was made into a tablet for the Military Museum of the Chinese People's Revolution. Chairman Mao Zedong personally wrote the name of the museum. Avalible scope of copper&brass&bronze&Cu-Ni plate: Thickness: 3-150mm; Width: 200-3300mm; Length ≦ 8000mm.

BASIC PARAMETERS

COPPER

Alloy	Product	Temper	Size (mm)			Main characteristics
			Thickness	Width	Length	
C1100、C11000、TU1、TU2 TP1、TP2、C10200、LC1011、C12000、C12200	Hot rolled plate	M20	4～8	600～3100	≤6000	Thickness 4～14mm: Rm≥195Mpa A11.3≥30%
			>8～80	200～3100	≤6000	
		R	>60～150	200～2500	≤6000	Not applicable
	Cold rolled plate	O60、H01、H02、H04、H06	0.3～<0.5	400～610	≤2000	O60 : Rm≥205Mpa A11.3≥30%; H01: Rm=215～295Mpa A11.3≥25%; H02: Rm=245～345Mpa A11.3≥8% ; H04: Rm≥295～395Mpa; H06: Rm≥350Mpa
			0.5～3.0	400～1020	≤3000	
			>3.0～12	400～3100 (3)	≤6000	
			>8～60	600～3100 (3)	1000～6000	
			>60～150	600～2500	1000～4000	
TU1 TU2 C10200 LC1011	Oxygen-free copper plate	O60、H01、H02、H04	0.3～0.5	400～610	≤2000	O60: Rm 195～260Mpa A11.3≥40%; H01: Rm 215～275Mpa A11.3≥30%; H02: Rm 245～315Mpa A11.3≥15%; H04: Rm≥275Mpa
			>0.5～3.0	400～1020 (6)	≤3000	
			>3.0～10	400～3100 (7)	≤6000	
C10200、C1100	Copper stave	M20、M25	40～150	770～1590	1200～3600	Rm≥200Mpa A≥30% HB≥40;
C1100、C11000	For decoration	Y	0.5～2.5	600～1000	≤3000	Tensile Strength≥300MPa, 90° bend without cracking

Typical applications: power, metallurgical equipment, water conservancy projects, new energy, electronic components, etc.

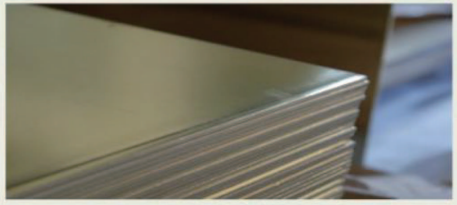


BRASS

Alloy	Product	Temper	Size (mm)			Main characteristics
			Thickness	Width	length	
C2600、C26000 H68 C27200 C28000	Hot rolled plate	M20	4～8	600～2000	≤6000	Thickness=4～14mm: C28000 C27200 Rm≥290Mpa A11.3≥30% H68 C2600、C26000 Rm≥290Mpa A11.3≥40%
			>8～60	600～3000	≤6000	
C28000 C2680 H68 C2600、C26000 H80 C21000		R	>60～120	600～2000	≤4000	Negotiation
H95 C21000	Cold rolled	O60、 H04	0.3～0.5	400～600	≤2000	Negotiation

H80	plate		＞0.5～3.0	≤600	≤3000	
			＞3.0～10	≤3000	≤6000	
C22000 C23000		O60、H02、H04	0.3～0.5	400～600	≤2000	
			＞0.5～3.0	≤600	≤3000	
			＞3.0～10	≤3000	≤6000	
C2600、C26000 H68 C2680		O60、H01、H02、H04、H06、H08	0.3～0.5	≤600	≤2000	
			＞0.5～3.0	≤1000	≤3000	
			＞3.0～10	≤3000	≤6000	
C27200 C28000		O60、H02、H04、H06	0.3～0.5	400～600	≤2000	
			＞0.5～3.0	≤1000	≤3000	
			＞3.0～10	≤3000	≤6000	
C2680 H68	For watches	M、Y2、Y、T	0.30～1.50	600	1200～2000	Tensile force, hardness, grain size according to national standard or industry standard, or negotiate
C46400、HSn62-1	Tin brass	M20	4.0～8	600～2000	≤4000	Thickness=4～14mm Rm≥340Mpa A11.3≥20%
			＞8～60	600～3000	≤6000	
		O60、H02、H04	3.0～10	≤2500	≤4000	Negotiation
C28000、C2680、H68	For decoration	Y、Y2、M	0.5～2.5	600～1000	≤3000	Negotiation

Typical applications: building & decorations, heat exchanger, clocks, hardware, etc.



BRONZE

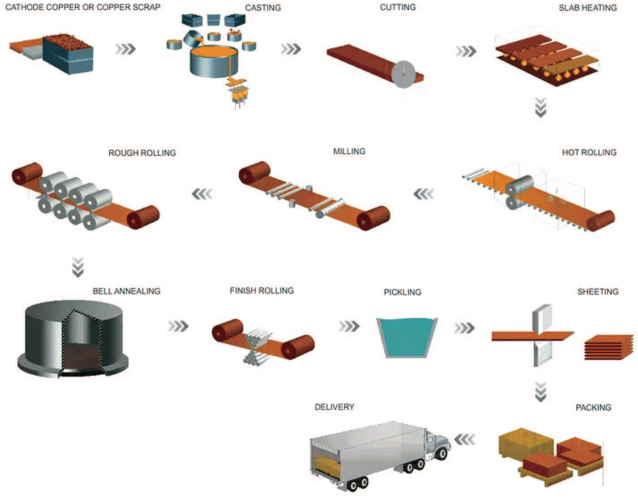
Alloy	Product	Temper	Size (mm)			Main characteristics
			Thickness	Width	length	
QSn6.5-0.1	Tin bronze	O60、H01、H02、H04、H06、H08	0.3～0.5	≤600	≤2000	Negotiation
			＞0.5～3.0	≤600	≤3000	
			＞3.0～12	≤600	≤4000	
		M20	9～50	≤600	≤2000	Thickness ≤ 14mm Rm ≥ 290MPa A11.3≥38%
QSn7-0.2	Tin bronze	O60、H04、H06	0.3～3.0	≤550	≤2000	O60 Rm≥295MPa A11.3≥40%
			＞3.0～12	≤600	≤3000	H04 Rm540～690MPa A11.3≥8% H06 Rm≥665MPa A11.3≥2%
QA19-2	Aluminum bronze	R	8～25	≤1000	≤2000	Thickness ≤ 14mm Rm ≥ 440Mpa A11.3≥15%
		O60、H04	3.0～12	≤1000	≤2000	O60 Rm≥440MPa A11.3≥18%
						H04Rm≥585MPa A11.3≥5%
QA19-4	Aluminum bronze	R	8～25	≤1000	≤2000	Only for measured value
		H04	3.0～12	≤1000	≤2000	Rm≥585MPa
TCr0.5	Chrome Bronze	R	7～25	≤600	≤2000	HB≥50
		H04	0.5～3.0	300～600	≤2000	HB≥100
			3.0～15	≤600	≤2000	
QSi3-1	Silicon manganese bronze	O60、H04、H06	0.5～3.0	300～550	1000～2000	O60：Rm≥343Mpa A11.3≥40%； H04：Rm 588～735MPa A11.3≥3%
			3.0～10	600～1000	1000～2000	
CuNi2Si	Nickel Silicon Bronze	Y	2.0～3.0	≤600	≤3000	Negotiation
QSi0.6-2.1	Nickel Silicon Bronze	TH04	1.0～3.0	≤600	1000～3000	Rm480～580Mpa A≥16%

COPPER-NICKEL

Alloy	Product	Temper	Size (mm)			Main characteristics
			Thickness	Width	length	
B19 BFe10-1-1 BFe30-1-1 BFe10-1.6-1 7060X C70600	copper-nickel	R	7～75	＞600～2500	1500～6000	Negotiation
		M20	7～60	2500	≤6000	Negotiation
		O60、H04	3～10	≤2000 (8)	≤6000	
BZn15-20	Zinc copper-nickel	O60、H02、H04、H06	0.5～10	300～600	≤1500	Negotiation

Typical applications: crafts, coinage, decoration industry, high-speed rail catenary parts, springs, etc.

MACHINING PROCESS



COPPER&COPPER ALLOY PIPE&ROD PRODUCTION LINE

The company has several production lines of copper pipe&rod and profile with an annual production capacity of 15,000 tons. The available specifications and varieties are quite wide. Products are widely used in shipbuilding, aerospace, mechanical processing, defense equipment and other fields. Large-diameter copper alloy pipe&rods with max size 368mm have unique market advantages. (The following picture shows a 40MN hydraulic extrusion press)

MAIN PRODUCTS AND APPLICATION FIELDS OF COPPER & COPPER ALLOY PIPE&ROD.

Copper & Copper Alloy Extruded Products

Copper, brass, bronze, Cu-Ni and complex alloy pipe&rod; Specification range: OD60-300mm; Length: 500-6000mm.

Copper & Copper Alloy Drawn Pipe

Drawn copper, brass, bronze, Cu-Ni and complex alloy. They are mainly used in LCD display, machinery, electrical, motor, heat exchange equipment, pressure vessel, construction, musical instrument, marine condenser and heat exchanger, medical and health, etc.

Product I Oxygen-free copper tube target for LCD

The high-purity oxygen-free copper targets for LCD produced by the company breaks the long-term foreign monopoly and accelerates the localization of core materials for LCD. The company is the only domestic company that can produce high-generation- production-line high-purity copper tube targets currently.

Large-diameter Cu-Ni Pipes for Ship and Chemical Industry Fields

Product II Large-diameter Cu-Ni pipes&rod are widely used in marine shipbuiding, seawater desalination, oil drilling platforms and other fields, and have been exported to developed countries such as Japan and South Korea for a long time.

Water-pipe for Construction

The company's products occupy an important position in domestic market with superior performance and surface quality, and have been exported to overseas countries such as the United States and Europe for a long time.

BASIC PARAMETERS

EXTRUDED

Product	Alloy	Temper	Section size (mm)		Length (mm)
			OD	Wall thickness (or ID)	
Extruded copper	TU1 TU2 C1100、C11000 TP1 TP2	R	60～300	5～65	500～6000
Extruded brass	C28000 HPb59-1	R	60～300	5～42.5	500～6000
			135～140	45	500～2000
			145～200	45～50	500～2000
			205～260	45～50	500～1500
			265～300	45～50	500～1000
	C21000 HFe59-1-1	R	60～280	5～42.5	500～6000
	H80 H68	R	60～220	7.5～30	500～3000
	C46400、HSn62-1 HSi80-3 HMn58-2 HMn57-3-1	R	60～220	7.5～30	500～3000
Extruded bronze	QA19-2 QA110-4-4 QA19-4 QA110-3-1.5	R	70～250	5～50	500～6000
	QSi3.5-3-1.5	R	100～200	10～30	500～6000
	QCr0.5	R	100～220	17.5～37.5	500～3000
Extruded copper-nickel	BFe30-1-1 C71500	R	80-198	10～25	500～3000
	BFe10-1-1 BFe10-1.6-1 C70600 C7060X	R	70～250	10～25	500～3000

Typical applications: automotive wear-resistant parts, machinery, electrical, shipbuilding, electrodes and other high-conductivity heat-resistant parts.

COPPER

Product	Alloy	Temper	Section size (mm)		Length (mm)
			OD or Opposite distance	Wall thickness (or ID)	
Drawn copper	TU1 TU2 C10200 C1100、C11000 TP1 TP2	060、050、H04、H06	10～350	1～15	OD≤100mm L1000～7000 OD≥100mm L500～6000
		H02	10～100	1～15	OD≤30mm、WT＜3mm L≥6000
	TU1 TU2 C10200 C1100、C11000 TP1 TP2	060、H04	10～100	1～10	L1000～5000
	C1100、C11000 TP1 TP2 TU1 TU2	M 、Y	38～330	10.5～20	OD≤100mm L1000～7000 OD≥100mm L500～6000
	C1100、C11000	M、Y	10～80	1～10	L1000～5000
	C10200 C1100、C11000	M	10～130		≤7000
Copper water pipe Copper gas tube	TU2 TP2	H80	10～325	1～8	≤6000
		H55	10～159		
		060	10～108		
	TU2 TP2	060	≤28	1～2	≥15000
Cable tube	TP2 C12200	Y	25～80	2.5～6.5	6000～14000
Magnetron	LC1011	Y	39～40	34.7～35.3	1000～2000
Eccentric tube	C1100、C11000 TU1	M	38.5×34/φ26×4；42.5×38/φ30×4	4	1000～8000

BRONZE

Product	Alloy	Temper	Section size (mm)		Length (mm)
			OD	Wall thickness	
Drawn bronze tube	C18200 QCr0.5	H	50～102	10～17.5	OD≤50 L1000～7000 OD＞50 L500～6000

Typical applications: high-purity electronic displays, heat exchange equipment, oxygen generators, pressure vessels, machinery, electrical, etc.

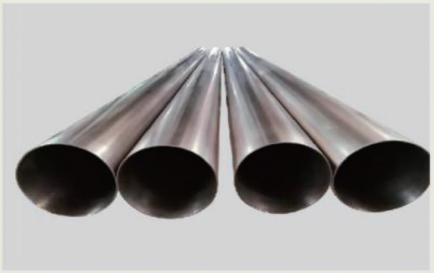
BRASS

Product	Alloy	Temper	Section size (mm)		Length (mm)
			OD	Wall thickness	
Drawn	H95 C22000 C23000	060、050、080、HR04	10～200	1～15	OD≤100 L1000～7500 OD＞100 L500～6000
	C2600、C26000 H68		10～100	1.0～10	
	C2680 C27200 C28000		10～200	1～18 (10)	
	C44300、HSn70-1 C46400、HSn62-1		10～100	1.0～10	
	C28000	Y2、M	38～200	10.5～17.5	OD≤100 L1000～7000 OD＞100 L500～6000
			201～275	4～17.5	
	C23000	H58、061	10.29～178	1.57～9.0	≤6096
	C2680 C2700	Y2	25～125	2.3～7.0	2300～4000 or Negotiation
	C27200C	Y2	15～45	0.8～5.5	2000～4000
For heat exchanger, condenser	HA177-2 C44300、HSn70-1 HAs68-0.04 C44300、HSn70-1-0.01 C44300、HSn70-1-0.01-0.04 HAs85-0.05 C68700 C44300	060、082	10～76	1.0～4.5	1000～14000
	C44300	061	12～45	1～3.40	≤14000
Oval	HFe59-1-1	Y	211/119	20.5	≤3000

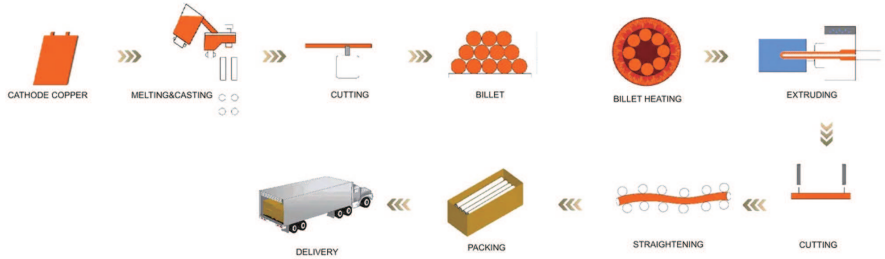
COPPER-NICKEL

Product	Alloy	Temper	Section size (mm)		Length (mm)
			OD	Wall thickness	
Drawn	BFe10-1-1 C70600	O60、O82、H80	10～160	1～8	OD≤50 L1000～7000 OD>50 L500～6000
	BFe30-1-1 C71500	O60、O82	10～160	1～12 (10)	
For marine	BFe10-1-1、 BFe10-1.6-1、C70600、 7060X、 LC7061、LC7063、LC7064、 LC7065	M	10～159	1.0～3.5	2000～6000
			10～194	1.0～3.5	6000
			10～368	1.0～5.5	4000～6000
			22～160	3～10	
For heat exchangers and condensers	BFe10-1-1 C70600 BFe10-1.6-1	O60	10～160	1～4.5	500～6000
		H80、O82	10～76	1～5.0	＜15000
	BFe30-1-1 C71500	O60、O82	10～76	1～4.5	＜15000

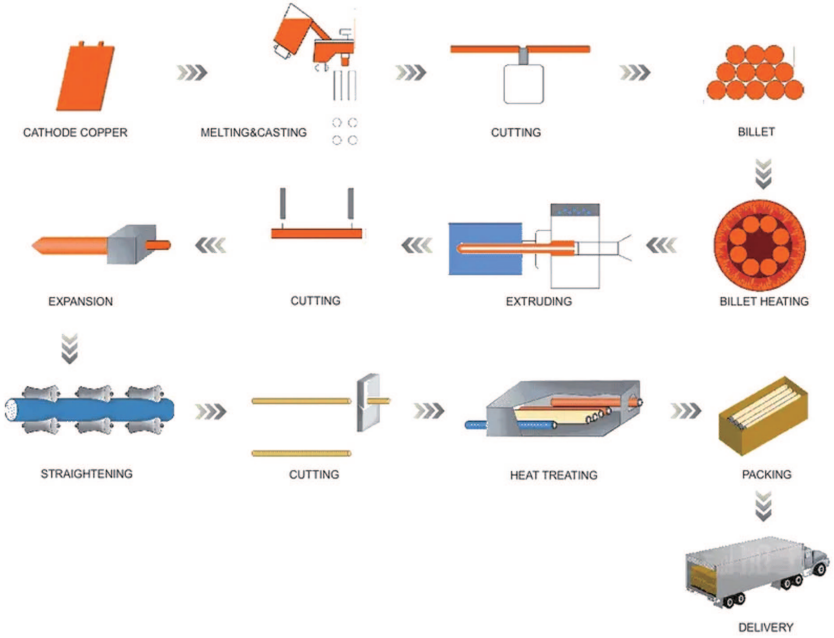
Typical applications: electrical appliances, instruments, instruments, chemicals, musical instruments, medical and health, marine and electric power industries, manufacturing corrosion-resistant parts and condensers, heat exchangers, etc.



MACHINING PROCESS



Drawn pipe/tube



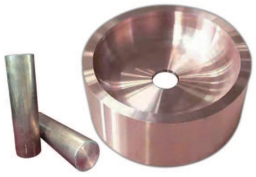
MAIN PRODUCTS AND APPLICATION FIELDS OF COPPER & COPPER ALLOY PIPE&ROD

Copper & Copper Alloy Drawn Rod

Drawn copper, brass, bronze, Cu-Ni and complex alloy. They are mainly used in electrical vacuum switches, medical apparatus and instruments, construction pipelines, weaponry, bearing components, rail traction system components, etc.

High-purity Copper Rod for Medical Apparatus and Instruments

The high-purity oxygen-free copper rods produced by the company, whose oxygen content is controlled below 5ppm steadily, are used for medical apparatus and instruments, and have been exported to well-known European medical equipment manufacturers for a long time.

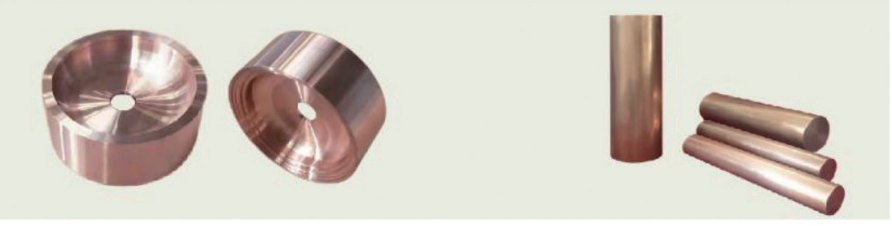


BASIC PARAMETERS

COPPER

Product	Alloy	Temper	OD or Opposite distance (mm)	Length (mm)
Extruded	C1100、C11000	R	16～＜30	500～5000
			30～300	Negotiation
	TU1 TU2 TP2 LC1011 C10200	R	16～300	Negotiation
	C1100、C11000	R	20～120	Negotiation
	C1100、C11000	R	20～120	Negotiation
	TU1 TU2 TP2	R	16～120	
		R	20～50	6000～14.5
Extruded Dispersed	TUMA10.12	R	45～100	500～5000
Drawn	C1100、C11000 TP2 TU1 TU2	Y、M	6～80	Negotiation
			8～60	
	C1100、C11000	Y、M	8～60	
	LC1011	Y	24～75	500～5000
		H02	25～50	Negotiation
Drawn Dispersed	TUMA10.12	Y、M	20～45	500～5000

Typical applications: new energy, electric vacuum switches, power transmission and distribution equipment, welding parts, etc.



BRASS

Product	Alloy	Temper	OD or Opposite distance (mm)	Length (mm)
Extruded	H68	R	18～120	Negotiation
	HSi80-3 HNi56-3 HMn57-3-1	R	40～160	Negotiation
	C21000 C46400、HSn62-1 HMn58-2 HFe59-1-1	R	10～220	Negotiation
	C28000 HPb59-1	R	10～250	Negotiation
	C28000 HPb59-1	R	10～50	1000～5000
	H80 H68	R	18～120	Negotiation
	C21000 C28000 HPb59-1 C46400、HSn62-1 HMn58-2 HMn57-3-1 HFe59-1-1	R	10～120	
	HMn60-3-1-0.75 (A)	R	＞50～125	500～4000
Drawn	C21000	Y、M	6～80	Negotiation
	C22000	Y	6～40	Negotiation
	H80 C2680	Y、M	6～40	Negotiation
			41～60	500～5000
	H68	Y2、M	10～60	Negotiation
	C28000 HPb59-1	Y2	6～80	Negotiation
	C27200	Y2	6～40	Negotiation
	C46400、HSn62-1 HFe59-1-1 HMn58-2	Y	6～60	Negotiation
	C36000	H02	6～60	1000～5000
	C3604(1)	轻拉	30～60	1000～5000
	C3604(2)	拉制	6～55	1000～5000
	CuZn39Pb3	Y2	10～35	1000～6000
	C28000 HPb59-1	Y2	9～40	1000～5000
	HMn60-3-1-0.75 (A)	Y	11～50	1000～5000

COPPER-NICKEL

Product	Alloy	Temper	OD or Opposite distance (mm)	Length (mm)
Extruded	BFe30-1-1	R	50～160	Diameter (or margin)) ≤50 L1000～5000 Diameter (or margin)50～75 L500～5000 Diameter (or margin)＞75～120 L500～4000
	BFe10-1-1	R	50～160	
Drawn	BFe30-1-1 C71500	Y、M	20～50	500～5000
	C70600、BFe10-1-1、BFe10-1.6-1、LC7064、LC7065	M、Y2、Y	20～65	500～6000

Typical applications: bathroom parts, structural parts, precision instruments, high-strength and chip-prone structural parts, marine parts, hydraulic pump rotors and other parts.

BRONZE

Product	Alloy	Temper	OD or Opposite distance (mm)	Length (mm)	Main characteristics
Extruded aluminum bronze	QA19-2 QA19-4	R	15～220 (10)	Negotiation	Diameter (or margin)≤50 L1000～5000 Diameter (or margin)50～75 L500～5000 Diameter (or margin)＞75～120 L500～4000 Diameter (or margin)＞120 L300～4000。
	QA110-3-1.5	R	15～200	Negotiation	
	QA110-4-4 QA110-5-5	R	30～200	Negotiation	
	C61400	R	30～120	500～4000	
	QA19-2	R	15～60	Negotiation	
Extruded tin bronze	QSn7-0.2 QSn4-3	R	55～180	Negotiation	
	QSn6.5-0.1 QSn6.5-0.4	R	55～180		
	QSn7-0.2 QSn4-3	R	55～120	Negotiation	
	QSn6.5-0.1		55～120		
Extruded chrome bronze	QCr0.5	R	15～160	Negotiation	
Extruded Silicon	QSi1-3	R	35～160	Negotiation	
	QSi3-1	R	35～160		

Bronze	QSi3.5-3-1.5	R	40～120		
Drawn aluminum bronze	QA19-2 QA19-4 QA110-4-4 QA110-3-1.5 QA110-5-5	Y	10～40	Negotiation	Diameter (or margin)≤50 L1000～5000 Diameter (or margin)＞50～85 L500～5000
	C61400	HR50	30～80	≤4000	
Drawn tin bronze	QSn4-0.3	Y	25～40	500～5000	
			41～50		
	QSn7-0.2	Y 、T	20～55		
	QSn6.5-0.1 QSn6.5-0.4	Y			
	QSn4-3	Y	20～40		
Drawn chrome bronze	QCr0.5	Y、 M	10～70	500～5000	
	C18200	Y	10～70	3658 or Negotiation	
			19～56		
			Thickness≥19、Width：Thickness≤2、Diagonal≤70		
Drawn silicon bronze	CuNi2Si	M	13～40	500～5000	
		CY	13～40	500～5000	
	C65500	H04	19～65	≤4000	
	QSi3-1	Y	20～40	500～5000	

Typical applications: mechanical parts, structural parts, aerospace wear-resistant parts and bearings, electrical railway contact line accessories, etc.

MACHINING PROCESS