



STOCK CODE  
股票代码  
601609



宁波金田铜业（集团）股份有限公司  
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金田铜业官网  
WEBSITE



金田铜业官微  
WECHAT

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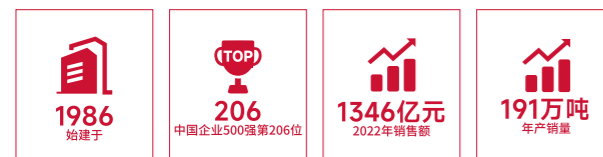
**金田铜棒事业部**  
JINTIAN COPPER ROD DIVISION



# COMPANY PROFILE

公司简介 | 股票代码 601609

宁波金田铜业（集团）股份有限公司  
NINGBO JINTIAN COPPER(GROUP) CO.,LTD.



公司创建于1986年，专注铜加工产业38年，是全球领先的铜合金及先进材料制造企业。主要产品有铜管、棒、线、板、带、排、电磁线、阀门、磁性材料及黄铜、青铜、紫铜、白铜等高端合金。致力于为新能源汽车、风力发电、光伏能源、电力电气、轨道交通、消费电子等产业发展提供全球一流的产品和服务。



公司立足宁波，放眼世界，在全球有八大生产基地，25家分子公司，8000余名员工。在美国、德国、泰国、日本、韩国等地设立分支机构，业务遍及100多个国家和地区，是众多世界知名企业的长期合作伙伴。

2023年，铜加工产销量达191万吨，位列中国制造业500强第94位。

Jintian founded in 1986 and focus on copper processing industry for 38 years, which is a global leader in the manufacturing of copper alloys and advanced materials. Our main products include copper tube, rod, wire, plate, strip, busbar, electromagnetic wire, valve, magnetic materials and high-end alloys such as brass, bronze, copper and copper-nickel. We are committed to providing global first-class products and services for the development of new energy vehicles, wind power generation, photovoltaic energy, electric power, rail transit, consumer electronics and other industries.

Jintian based in Ningbo, has eight production bases, 25 subsidiaries and more than 8,000 employees in the world. We have set up subsidiaries in USA, Germany, Thailand, Japan, Korea, etc. Our business covers more than 100 countries and regions, and we are the long-term partner of many world famous enterprises.

In 2023, copper processing sales reached 1.91 million tons, and ranked 94 in Chinese top 500 manufacturing industries.







金田铜棒事业部成立于1986年

系宁波金田铜业（集团）股份有限公司铜棒材生产、经营主体

公司棒线材总计产能超30万吨

经过 30 多年的发展与沉淀，公司已成为全球领先的铜加工制造基地，是国内知名的铜棒生产企业，拥有连铸、挤压、浇铸三大工艺技术，主要生产易切削铅黄铜、无铅环保铜、DZR 耐脱锌黄铜、锡青铜、抛光铜锭、CW617N 和 C46500 等系列产品，涵盖国标、欧标、美标、日标、英标等 40 余种铜合金牌号。公司荣获了“浙江省名牌产品”等荣誉称号。公司产品符合德国 PED 产品认证标准，广泛应用于阀门锁具、空调部件机械五金和建筑水暖等行业，已与中国联塑集团、九牧厨卫、日丰企业集团等多家知名企业建立了良好的合作关系。

在“创造客户价值，打造百年企业，成为行业标杆，为现代工业文明做贡献”的使命愿景牵引

下，公司秉承“天天求变、永不满足、勇于竞争、追求卓越”的企业精神，坚持走循环经济和新型工业化和谐发展道路，专注于铜加工先进技术的研究，自主开发的“大吨位电炉熔炼—潜液转流—多流多头水平连铸技术和设备”，荣获“国家科技进步一等奖”。公司拥有一流的管理水平和人才队伍，引进了日本、台湾、瑞士等国家先进的制造设备和检测仪器，建成多条现代化的水平连铸和挤压生产线。

作为国内棒材生产的领军企业，我们立足于广阔的市场，始终致力于产业布局的深化与拓展。目前公司已在宁波和广东建立了生产基地，在战略规划中将设立泰国生产基地，旨在辐射东南亚市场，提升国际竞争力。

After more than 30 years of development and precipitation, the company has become the world's leading copper processing and manufacturing base, is a well-known domestic copper rod production enterprise, with continuous casting, extrusion, casting three major technology, mainly produces free cutting lead brass, lead-free environmental protection copper, DZR dezinc-resistant brass, tin bronze, polished copper ingot, CW617N and C46500 and other products. It covers more than 40 kinds of copper alloy grades such as national standard, European standard, American standard, Japanese standard and British standard. The company has won the honorary title of "Zhejiang Famous Brand

Products". The company's products meet the German PED product certification standards, widely used in valve locks, air conditioning parts mechanical hardware and building plumbing and other industries, has established a good cooperative relationship with China Lianso Group, Jiuwu kitchen and bathroom, Rifeng Enterprise Group and many other well-known enterprises.

Under the mission vision of "creating customer value, building a century-old company, becoming an industry benchmark, and contributing to modern industrial civilization", the company adheres to the enterprise spirit of "seeking change every day, never satisfied, brave competition, and pursuit of excel-

JINTIAN COPPER ROD BUSINESS DIVISION WAS ESTABLISHED IN 1986.  
NINGBO JINTIAN COPPER INDUSTRY (GROUP) CO., LTD. COPPER BAR  
PRODUCTION, MANAGEMENT MAIN BODY.  
THE COMPANY'S TOTAL PRODUCTION CAPACITY OF RODS AND WIRES  
EXCEEDS 300,000 TONS.

lence", adheres to the road of harmonious development of circular economy and new industrialization, and focuses on the research of advanced copper processing technology. The self-developed "large-tonnage electric furnace melting - submerged liquid transfer - multi-flow multi-head horizontal continuous casting technology and equipment" won the "National Science and Technology Progress First Prize". The company has first-class management level and talent team, the introduction of Japan, Taiwan, Switzerland and other countries advanced manufacturing equipment and test-

ing instruments, built a number of modern horizontal continuous casting and extrusion production lines.

As a domestic bar production leader, we are based on the broad market, always committed to the deepening and expansion of industrial layout. At present, the company has established production bases in Ningbo and Guangdong, and will set up a production base in Thailand in the strategic plan, aiming to radiate the Southeast Asian market and enhance international competitiveness.



# ENTERPRISE'S HONOR

## 荣誉证书



营造国际品牌 构筑百年企业  
Elevate an international brandname  
Construct a centenary enterprise



ISO9001



ISO14001



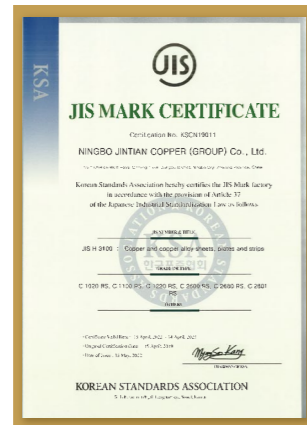
ISO45001



IAFT16949



UL



JIS



欧标 EN



CNAS



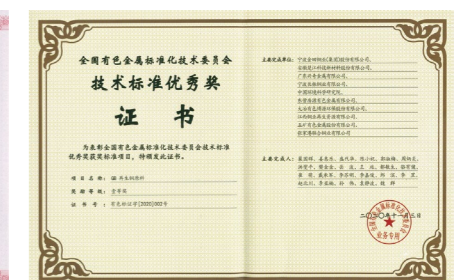
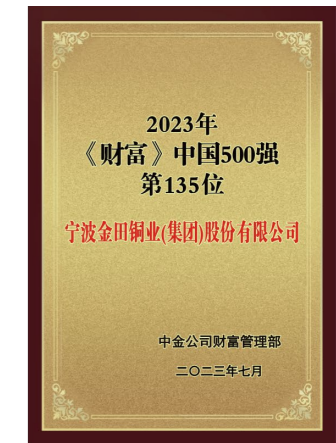
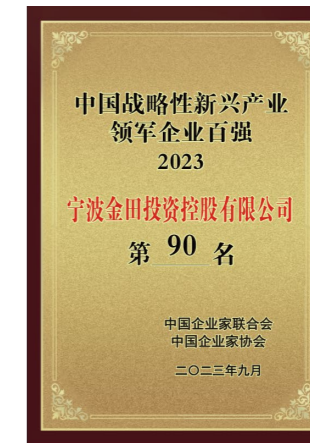
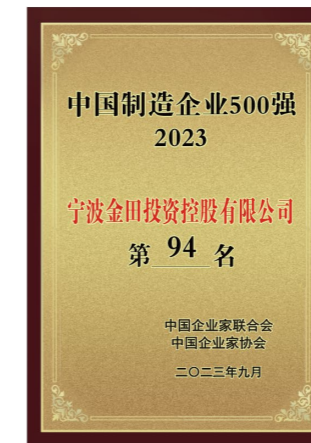
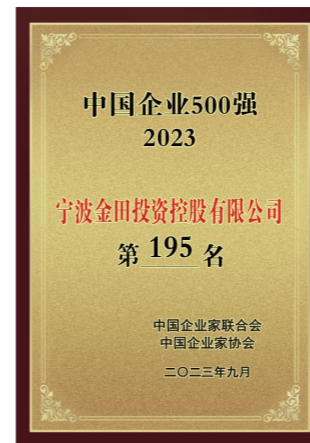
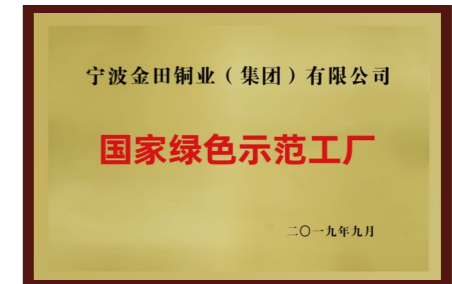
CMS



GRS



SCS





走精益生产之路 尽全力消除浪费  
Process efficiently and precisely to eliminate waste



挤压机专用熔铸炉 EXTRUDER DEDICATED MELTING FURNACE



熔炼车间 MELTING WORKSHOP



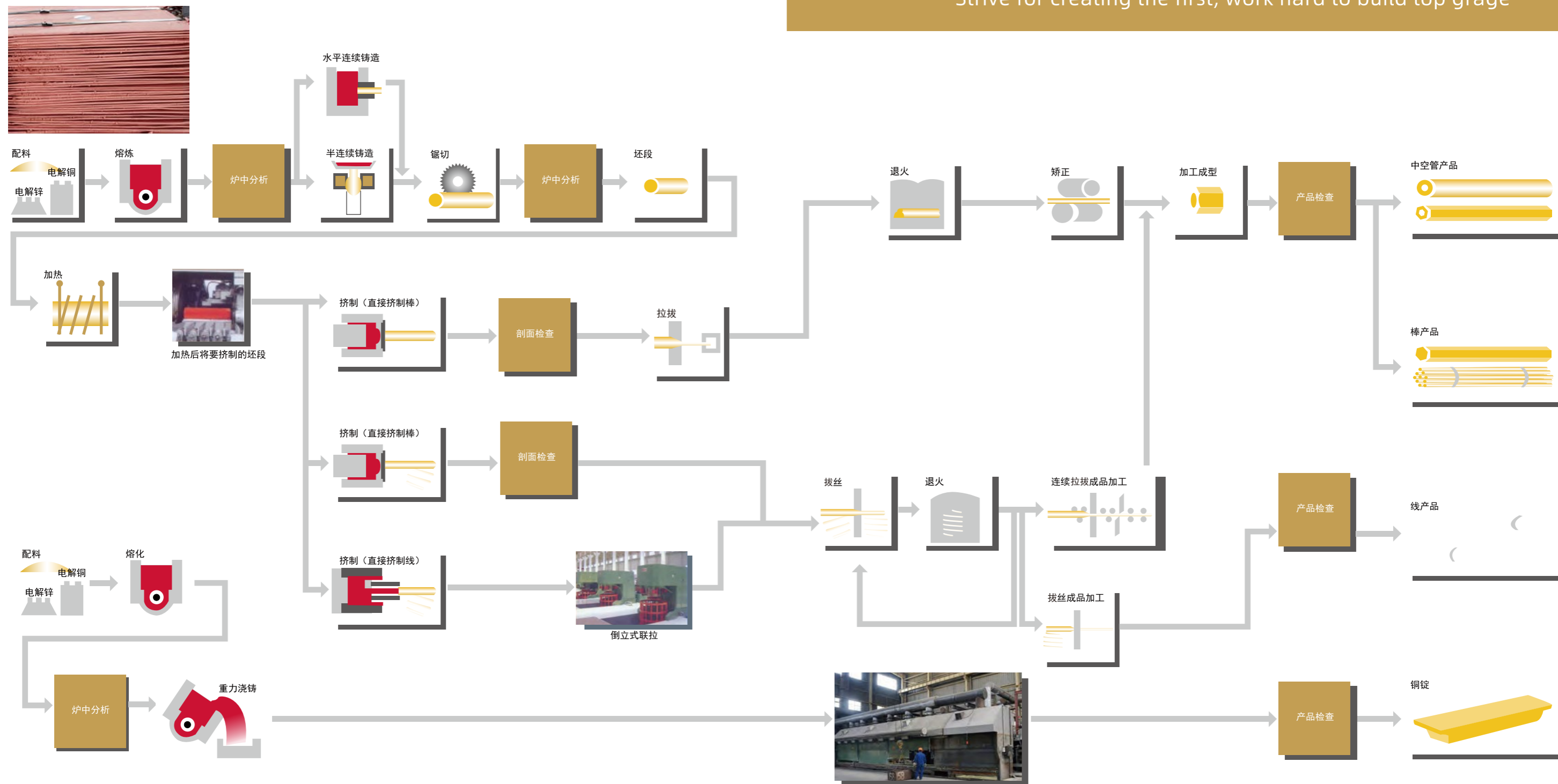
联合拉拔机 JOINT PULLER



大吨位反向挤压机 LARGE TONNAGE REVERSE EXTRUDER



努力创造第一 全新打造一流  
Strive for creating the first, work hard to build top grade





# QUALITY CONTROL & ASSURANCE

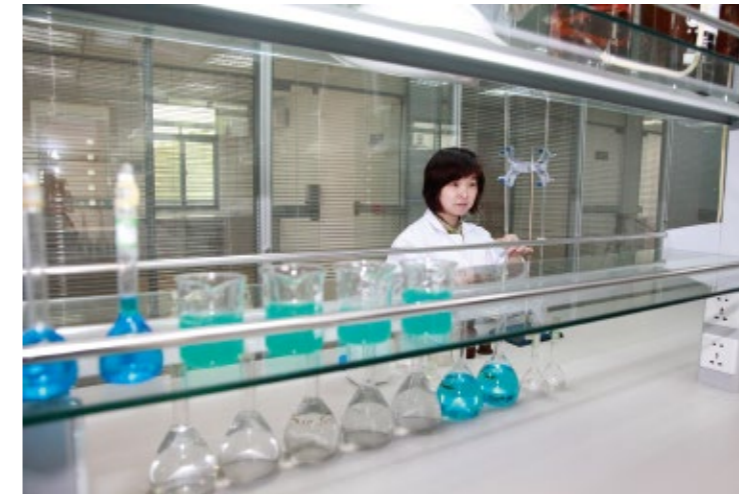
## 质量管理 & 品质保证

精益生产，品质为先。专门的质检机构，专业的检测中心，先进的测试设备，为金田铜业构建起了科学完善的质量控制体系。

金田铜业已通过 ISO9001 质量认证和 ISO14001 环境认证，并获得了 UL、ASTM、EN、TUL 等国家标准认证。

Keep meliorating in the production. Quality is above all. The specialized QC department, the professional test center, the advanced test equipment, etc. Have provided Jintian Copper with a scientific & perfect QC system.

Jintian Copper has been ISO9001 certified for quality and ISO14001 certified for environment protection, furthermore, has attained international approvals including UL, ASTM, EN, TUV certifications.



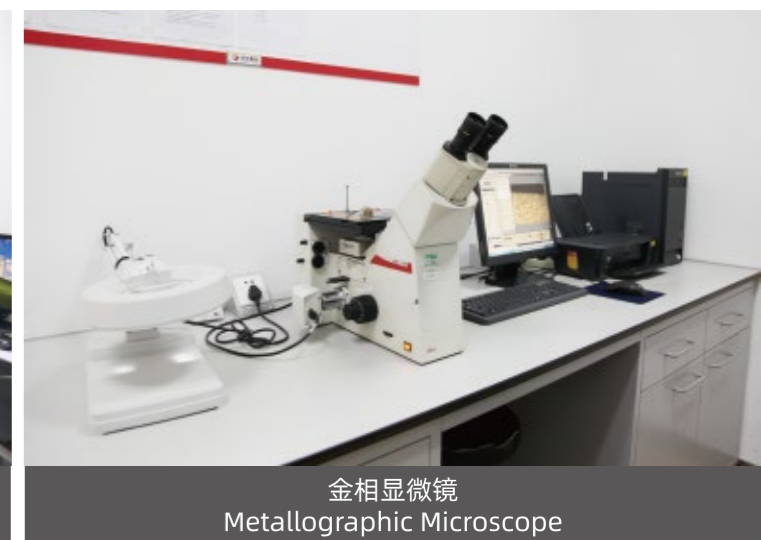
ARL3460直读光谱仪  
ARL3460 Optical Emission Spectrometer



布、洛、维氏硬度计  
Brinell-Rockwell-Vickers Sclerometer



电子万能试验机  
Electronic universal testing machine

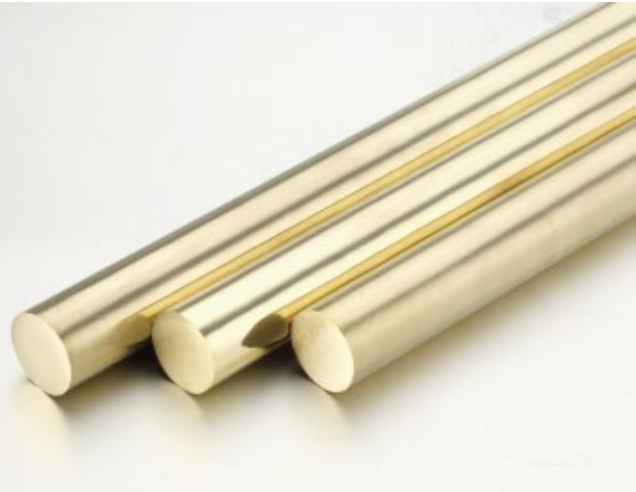


金相显微镜  
Metallographic Microscope



# ORDINARY BRASS ROD

## 普黄铜棒



有良好的机械性能，热态下塑性好，冷态下塑性也可以，切削性好，易钎接和焊接，耐蚀，但易产生腐蚀破裂。

With excellent machinability, cold plasticity, hot plasticity, free cutting and resistance to corrosion, it is easy to joint and braze.

# FREE CUTTING BRASS ROD

## 易切削黄铜棒

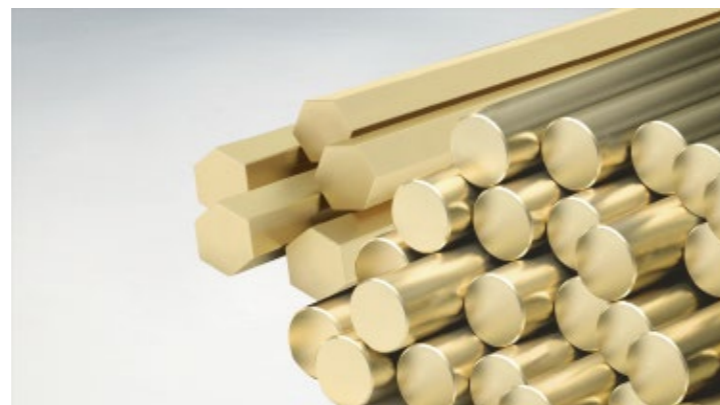


- 良好的切削性能和机械性能
- 能承受冷热压力加工
- 良好的可焊性
- 对一般腐蚀具有良好的稳定性
- Good cutting performance and mechanical properties
- Can withstand hot and cold pressure processing
- Good solderability
- Good stability to general corrosion

牌号 Grade	化学成份 % (单值为不大于) Chemistry component % (No more than)									
	Cu	Pb	Fe	Ni	Sn	Al	Zn	Mn	其他杂质和	杂质总和
H59	57.0 ~ 60.0	0.5	0.3							1.0
H62	60.5 ~ 63.5	0.08	0.15							0.5
H63	62.0 ~ 65.0	0.08	0.15							0.5
H65	63.0 ~ 68.5	0.09	0.07							0.45
H68	67.0 ~ 70.0	0.03	0.1							0.3
典型应用 Applications	适用各种深引伸和弯折制造的受力零件，如销钉、铆钉、垫圈、螺帽、导管、散热器零件等。 Used in a lot of deep-drawability parts, such as hardware, radiator parts, springs, bolts, rivets and machine parts.									

我司生产圆形、方形、六角、异形普黄铜棒材、线材，规格范围Φ2mm-95mm，可根据客户要求定制不同力学性能产品。

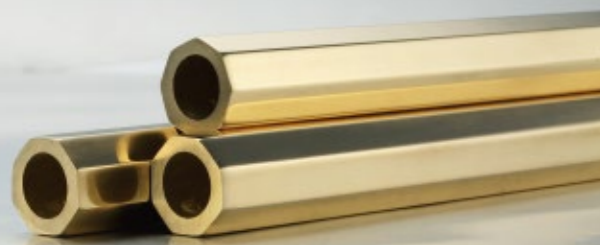
Our company produces round, square, hexagonal and special-shaped brass rods and wires with specifications ranging from Φ2mm to 95mm, and products with different mechanical properties can be customized according to customer requirements.



牌号 Grade	化学成份 %，不大于（注明余量和范围值除外） Chemistry component %, not greater than (except for the remaining amount and range value)										
	Cu	Pb	Fe	Ni	Sn	Mn	P	Si	Zn	其他	杂质总和
HPb57-4	56.0 ~ 58.0	3.5 ~ 4.5	0.5		0.5				余量		1.2
HPb58-3	57.0 ~ 60.0	2.0 ~ 3.5	0.5						余量		1.0
HPb59-1	57.0 ~ 60.0	0.8 ~ 1.9	0.5						余量		1.0
HPb59-2	57.0 ~ 60.0	1.5 ~ 2.5	0.5		0.5				余量		1.0
HPb60-2	58.0 ~ 61.0	1.5 ~ 2.5							余量		0.65
HPb60-3	58.0 ~ 61.0	2.5 ~ 2.5							余量		0.85
HPb61-1	58.0 ~ 62.0	0.6 ~ 1.2							余量		0.55
HPb58-2A	56.0 ~ 60.0	2.0 ~ 3.2							余量		
HPb59-1B	57.0 ~ 60.0	1.0 ~ 2.2	0.6						余量		
HPb58-2C	54.0 ~ 58.0	2.0 ~ 5.0									
C3771	57.0 ~ 61.0	1.0 ~ 2.5							余量	Fe+Sn1.0	
C3601	59.0 ~ 63.0	1.8 ~ 3.7	0.3						余量	Fe+Sn0.5	
C3602	59.0 ~ 63.0	1.8 ~ 3.7	0.5						余量	Fe+Sn1.0	
C3603	57.0 ~ 61.0	1.8 ~ 3.7	0.35						余量	Fe+Sn0.6	
C3604	57.0 ~ 61.0	1.8 ~ 3.7	0.5						余量	Fe+Sn1.0	
典型应用 Applications	适用于以热冲和切削加工制作的各种结构零件，以及自动车床、数控车床加工产品，如五金件、电气接插件、连接件等。 Suitable for various structural parts made by hot punching and cutting, as well as automatic lathes and CNC lathes, such as hardware, electrical connectors, and connectors.										



# LEAD-FREE ENVIRONMENTAL PROTECTION COPPER ROD 无铅环保铜棒



无铅环保 (Pb≤0.25%), 优秀的机械性能, 优秀的热加工性能, 良好的机加工性能, 优秀的抗应力腐蚀性能

Lead-free environmental protection (Pb≤0.25%), Excellent mechanical properties, Excellent thermal processing performance, Good machining performance, Excellent resistance to stress corrosion

# LEAD-FREE ENVIRONMENTALLY FRIENDLY COPPER ROD 无铅环保铜锭



- A级抛光铜锭: 表面杂质数量 (单个面积小于等于0.08平方毫米) ≤3
- DZR铜锭: 抗脱锌深度要求 < 100微米
- Grade A polished copper ingots: the number of surface impurities (single area is less than or equal to 0.08 square mm) ≤3
- DZR copper ingot: De-zinc-resistant depth requirements <100 microns

牌号 Grade	化学成份 % Chemistry component %										
	Cu	Pb	Al	Fe	Ni	Sn	Si	Bi	P	Zn	其他 杂质总和
C28500	57.0~59.0	≤0.25	≤0.10	≤0.10						余量	
C27450	61.0~64.0	≤0.25		≤0.35						余量	
C46400	59.0~62.0	≤0.20		≤0.10		0.50~1.0			≤0.20	余量	
H62	60.5~63.5	≤0.08		≤0.15						余量	≤0.5
H65	63.0~68.5	≤0.09		≤0.07						余量	≤0.45
HSn62-1	31.0~63.0	≤0.10		≤0.10		0.70~1.10				余量	≤0.30
HBI59-1	58.0~60.0	≤0.10		≤0.20		≤0.20		0.80~2.0		余量	≤0.50
HSi75-3	73.0~77.0	0.1		0.1	0.1	0.20	2.7~3.4		0.04~0.15	余量	0.6
典型应用 Applications	水暖五金、水表、各种阀门、管道接头、供水管配件等涉水器件。适用于自动车床、数控车床加工有生态环保和卫生安全要求等系列产品；如电子、电讯、电气接插件、联接件，五金、照相、家电、饮用水工程的零部件。 Water heating hardware, water meters, various valves, pipe joints, water supply pipe fittings and other wading devices. Applicable to automatic lathes, CNC lathe processing, eco-friendly and hygienic safety requirements; such as electronics, telecommunications, electrical connectors, connectors, hardware, photography, home appliances, drinking water engineering parts.										

RoHS是由欧盟立法制定的一项强制性标准，它的全称是《关于限制在电子电气设备中使用某些有害成分的指令》(Restriction of Hazardous Substances) 金属材质需测试四种有害金属元素，即Cd镉、Pb铅、Hg汞、Cr6+六价铬。要求镉小于100ppm、铅小于1000ppm、汞小于1000ppm、六价铬小于1000ppm。对于铜合金要求铅小于40000ppm即可。

RoHS is a mandatory standard enacted by EU legislation, and its full name is the Restriction of Hazardous Substances (Restriction of Hazardous Substances). Metal materials need to be tested for four harmful metal elements, namely Cd cadmium, Pb lead, Hg mercury, Cr6+ hexavalent chromium. It is required that cadmium is less than 100 ppm, lead is less than 1000 ppm, mercury is less than 1000 ppm, and hexavalent chromium is less than 1000 ppm. For copper alloys, lead should be less than 40,000 ppm.

REACH是欧盟法规《化学品的注册、评估、授权和限制》(REGULATION concerning the Registration, Evaluation, Authorization and Restriction of Chemicals)的简称，是欧盟建立的，并于2007年6月1日起实施的化学品监管体系。铜合金内一般不含REACH法规中关注物质，但需要关注包装物与标识用材料。

REACH is the abbreviation of the REGULATION concerning the Registration, Evaluation, Authorization and Restriction of Chemicals, which was established by the European Union and implemented on June 1, 2007. Product supervision system. Copper alloys generally do not contain substances of interest in the REACH regulation, but attention needs to be paid to packaging materials and marking materials.

特A级铜锭 COPPER BRASS INGOT RODS											
牌号 Grade	化学成份 % Chemistry component %										
	Cu	Pb	Al	Fe	Ni	Sn	Si	Bi	As	Zn	其他 杂质总和
特A级铜锭	59.0~60.3	1.0~1.8	0.5~0.75	≤0.15	≤0.1	≤0.15	≤0.03	≤0.02	≤0.01	余量	≤0.2
典型应用 Applications	高端卫浴行业、工艺品行业。 They are widely used in high-end sanitary ware industry and handicraft industry.										

DZR铜锭 DZR COPPER INGOT											
牌号 Grade	化学成份 % Chemistry component %										
	Cu	Pb	Al	Fe	Ni	Sn	Si	Bi	As	Zn	其他 杂质总和
DZR铜锭	61.0~64.0	0.8~2.5	0.5~0.8	≤0.5	≤1	≤1.0	≤0.05	≤0.05	0.04~0.25	余量	≤0.5
典型应用 Applications	高端卫浴行业、工艺品行业。 They are widely used in high-end sanitary ware industry and handicraft industry.										

无铅铜锭 LEAD-FREE COPPER INGOT											
牌号 Grade	化学成份 % Chemistry component %										
	Cu	Pb	Al	Fe	Ni	Sn	Si	Bi	As	Zn	其他 杂质总和
铋无铅黄铜锭	61.0~63.0	≤0.2	0.5~0.8	≤0.3	≤0.3	≤0.4	≤0.05	0.40~1.0	≤0.02	余量	≤0.03
硅无铅黄铜锭	61.0~64.0	≤0.2	0.5~0.8	≤0.1	≤0.1	≤0.15	0.5~0.7	0.02	≤0.02	余量	≤0.03
典型应用 Applications	高端卫浴行业、工艺品行业。 They are widely used in high-end sanitary ware industry and handicraft industry.										

接受客户成分定制服务  
Accept customer component customization services



# ANTI-DEZINCIFICATION COPPER ROD 抗脱锌铜棒



优秀的抗脱锌性能，优秀的机械性能，优秀的热加工性能，良好的机加工性能，优秀的抗应力腐蚀性能

Excellent resistance to dezincification, Excellent mechanical properties, Excellent thermal processing performance, Good machining performance, Excellent resistance to stress corrosion

# TIN ZINC LEAD BRONZE 锡锌铅青铜



良好的机械性能，优秀的耐磨性能，优秀的机加工性能，优秀的耐腐蚀性能，优秀的铸造性能

Good mechanical properties, Excellent wear resistance, Excellent machining performance, Excellent corrosion resistance, Excellent casting performance

牌号 Grade	化学成份 % Chemistry component %										
	Cu	Pb	Al	Fe	Ni	Sn	Mn	Bi	As	Zn	其他 杂质总和
C48600	59.0~62.0	1.0~2.50				0.30~1.50			0.02~0.25	余量	
C46500	59.0~62.0	≤0.20		≤0.10		0.50~1.0			0.02~0.06	余量	0.4
C35200	60.0~63.0	1.70~2.80	≤0.05	≤0.10	≤0.30	≤0.10	≤0.10		0.02~0.15	余量	0.02
CW511L	61.5~63.5	≤0.20	≤0.05	≤0.10	≤0.30	≤0.10			0.02~0.15	余量	0.02
CW602N	61.0~63.0	1.70~2.80	≤0.05	≤0.10	≤0.30	≤0.10	≤0.10		0.02~0.15	余量	0.02
CW625N	62.0~64.0	1.20~1.60	0.50~0.70	≤0.30	≤0.20	≤0.30	≤0.10		0.02~0.15	余量	
CZ132	余量	1.70~2.80		≤0.20		≤0.20				35~37	0.5
典型应用 Applications	水暖五金、水表、各种阀门、管道接头、供水管配件等涉水器件。适用于有生态环保和卫生安全要求等系列产品；如家电、饮用水工程的零部件。 Water heating hardware, water meters, various valves, pipe joints, water supply pipe fittings and other wading devices. Applicable to a series of products with ecological and environmental protection and health and safety requirements; such as household appliances, drinking water engineering parts.										

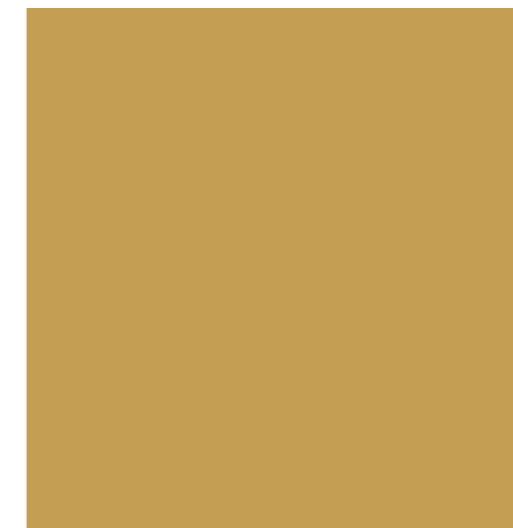
牌号 Grade	化学成份 % Chemistry component %										
	Cu	Pb	Sn	Zn	Fe	Ni	Al	Si	Sb	P	S
ZCuSn5Zn5Pb5 (C83600)	84.0~86.0	4.0~6.0	4.0~6.0	4.0~6.0	≤0.30	≤1.0	≤0.005	≤0.005	≤0.25	≤0.05	≤0.08
C84400	78.0~82.0	6.0~8.0	2.5~3.5	7.0~10.0	≤0.40	≤1.0	≤0.005	≤0.005	≤0.25	≤0.02	≤0.08
ZCuSn6Zn6Pb3	余量	2.0~4.0	5.0~7.0	5.0~7.0	≤0.40	≤1.0	≤0.05	≤0.05	≤0.30	≤0.05	≤0.08
ZCuSn5Zn5Pb2 (CC499K)	84.0~88.0	0.2~3.0	4.0~6.0	4.0~6.0	≤0.30	0.1~0.6	≤0.01	≤0.01	≤0.10	≤0.04	≤0.04
ZQSn7Pb7Zn3 (C93200)	81.0~85.0	6.0~8.0	6.3~7.5	2.0~4.0	≤0.20	≤1.0	≤0.005	≤0.005	≤0.35	≤0.15	≤0.08
典型应用 Applications	管道、阀门配件，耐海水零配件，制造轴套、轴承衬垫、活塞离合器，有汽车青铜之称。适用于重力铸造、数控车床加工有耐磨、耐腐蚀、弹性要求的用于汽车、拖拉机、航空、机械工业的管配件、化工机械、耐磨零件等。 Pipes, valve fittings, seawater resistant parts, bushings, bearing pads, piston clutches, and the name of automotive bronze. Applicable to gravity casting, CNC lathe processing, wear-resistant, corrosion-resistant, elastic requirements for automotive, tractor, aviation, machinery industry pipe fittings, chemical machinery, wear parts, etc.										

黄铜脱锌是一种典型的成分选择性腐蚀，不仅在酸性较强的介质及碱性介质中发生，也能在中性的海水、河水、工业水中发生。这种腐蚀问题严重影响了设备寿命，因此抗脱锌黄铜应运而生。目前市场上采用的抗脱锌标准有欧洲标准EN 12165、澳大利亚标准AS 2345和国际通用标准ISO6059。国内常采用的测试条件依据GB/T 10119 黄铜耐脱锌腐蚀性能的测定。我司对于抗脱锌黄铜拥有丰富的生产经验和客户生产指导能力。

Dezincification of brass is a typical component selective corrosion, which occurs not only in acidic media and alkaline media, but also in neutral seawater, river water, and industrial water. This corrosion problem has seriously affected the life of the equipment, so antidezincification brass came into being. The anti-dezincification standards currently used on the market include the European standard EN 12165, the Australian standard AS 2345 and the international standard ISO 6059. The test conditions commonly used in China are based on the determination of the resistance to dezincification corrosion of GB/T 10119 brass. Our company has rich production experience and customer production guidance ability for dezincification-resistant brass.

材料在应力和腐蚀环境的共同作用下引起的破坏叫应力腐蚀。造成应力腐蚀破坏的静应力，远低于材料屈服强度，这个应力也可以是外加应力。铜合金耐应力腐蚀检验标准采用GB/T 10567.2铜及铜合金加工材残余应力检测方法，利用黄铜在氨气气氛中应力腐蚀破坏敏感性强的原理进行测试。我司通过加工工艺控制和去应力热处理工艺，材料能够通过24/72/96等各种测试实验。

The damage caused by the combination of stress and corrosive environment is called stress corrosion. The static stress causing stress corrosion damage is much lower than the material yield strength, and this stress can also be applied stress. The stress corrosion test standard for copper alloy adopts GB/T 10567.2 copper and copper alloy processed material residual stress detection method, and the principle of strong corrosion stress corrosion resistance of brass in ammonia atmosphere is tested. Through the process control and stress-relieving heat treatment process, our materials can pass various test experiments such as 24/72/96.





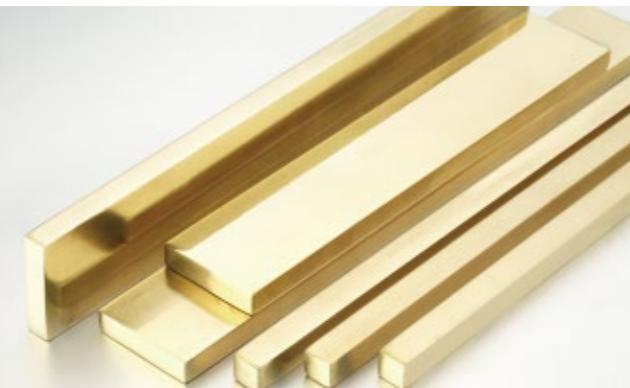
# PRECISION EXTRUSION ROD 精密挤压棒



- 优秀的综合机械性能
- 优秀的机加工性能
- 优秀的热加工性能
- 优秀的耐腐蚀性能
- 优秀的焊接性能

Excellent comprehensive mechanical properties, Excellent machining performance, Excellent hot workability, Excellent corrosion resistance, Excellent welding performance

# SHAPED LOCK ROD 异形锁体棒



- 良好的机械性能
- 优秀的机加工性能
- 优秀的耐腐蚀性能

Good mechanical properties, Excellent machining performance, Excellent corrosion resistance

牌号 Grade	化学成份 %, 不大于 (注明余量和范围值除外) Chemistry component %, not greater than (except for the remaining amount and range value)												
	Cu	Pb	Fe	Ni	Sn	Mn	P	Si	Al	Zn	其他	其他总杂质	杂质总和
H59	57.0 ~ 60.0	0.5	0.3							余量			1.0
H62	60.5 ~ 63.5	0.08	0.15							余量			0.5
HPb59-1	57.0 ~ 60.0	0.8 ~ 1.9	0.5							余量			1.0
HPb58-3	57.0 ~ 60.0	2.0 ~ 3.5	0.5							余量			1.0
HPb60-3	58.0 ~ 61.0	2.5 ~ 2.5								余量			0.85
C3771	57.0 ~ 60.0	1.0 ~ 2.5								余量	Fe+Sn1.0		
C3603	57.0 ~ 60.0	1.8 ~ 3.7	0.35							余量	Fe+Sn0.6		
C3604	57.0 ~ 60.0	1.8 ~ 3.7	0.5							余量	Fe+Sn1.0		
C3602	59.0 ~ 63.0	1.8 ~ 3.7	0.5							余量	Fe+Sn1.0		
C36000	60.0 ~ 63.0	2.5 ~ 3.0	0.35							余量		0.5	
C37100	58.0 ~ 62.0	0.6 ~ 1.2	0.15							余量		0.4	
C37700	58.0 ~ 61.0	1.5 ~ 2.5	0.3							余量		0.5	
C46500	59.0 ~ 62.0	0.2	0.1		0.5 ~ 1.0						As0.02 ~ 0.06		
CW612N	59.0 ~ 60.0	1.6 ~ 2.5	0.3		0.3				0.05				0.2
CW614N	57.0 ~ 59.0	2.5 ~ 3.5	0.3	0.3					0.05				0.2
CW617N	57.0 ~ 59.0	1.6 ~ 2.5	0.3	0.3	0.3				0.05		As0.02 ~ 0.15		0.2
CW511L	61.5 ~ 63.5	0.2	0.1	0.3	0.01				0.05				
CW602N	61.0 ~ 63.0	1.7 ~ 2.8	0.1	0.3	0.01				0.05	余量	As0.02 ~ 0.15	0.2	Mn:0.1
QSi0.6-2.1	余量	≤0.02	≤0.2	1.6 ~ 2.5				≤0.1			0.4 ~ 0.8		≤0.3
典型应用 Applications	可应用于自动车床、热冲等多方式加工的精密五金配件、特种高压阀体、阀杆、连接件、轨道交通等。 It can be applied to precision hardware accessories, special high-pressure valve bodies, valve stems, connectors, rail transit, etc. processed in multiple ways such as automatic lathes, hot punching, etc.												

牌号 Grade	化学成份 % Chemistry component %												
	Cu	Pb	Fe	Ni	Sn	Mn	P	Si	Al	Zn	其他	其他总杂质	杂质总和
CW614N	57.0 ~ 59.0	2.5 ~ 3.5	0.3	0.3					0.05			0.2	
C3604	57.0 ~ 61.0	1.8 ~ 3.7	0.5							余量	Fe+Sn1.0		
HPb58-2A	56.0 ~ 60.0	2.0 ~ 3.2								余量			
HPb58-2C	54.0 ~ 58.0	2.0 ~ 5.0											
HPb58-3	57.0 ~ 60.0	2.0 ~ 3.5	0.5							余量			1.0
典型应用 Applications	因其良好的切削性能, 广泛应用于挂锁、门锁、智能锁等。 Because of its good cutting performance, it is widely used in padlocks, door locks, smart locks, etc.												

我司生产的异形锁体棒材有扁方型、鼓型、葫芦形、各种空心异形等上千种规格形状, 并可  
根据客户要求定制化生产。

The special-shaped lock body bar produced by our company has thousands of specifications such as flat square shape, drum shape, gourd shape, various hollow special shapes, etc., and can be customized production according to customer requirements.





# CHEMISTRY COMPONENT STANDARD

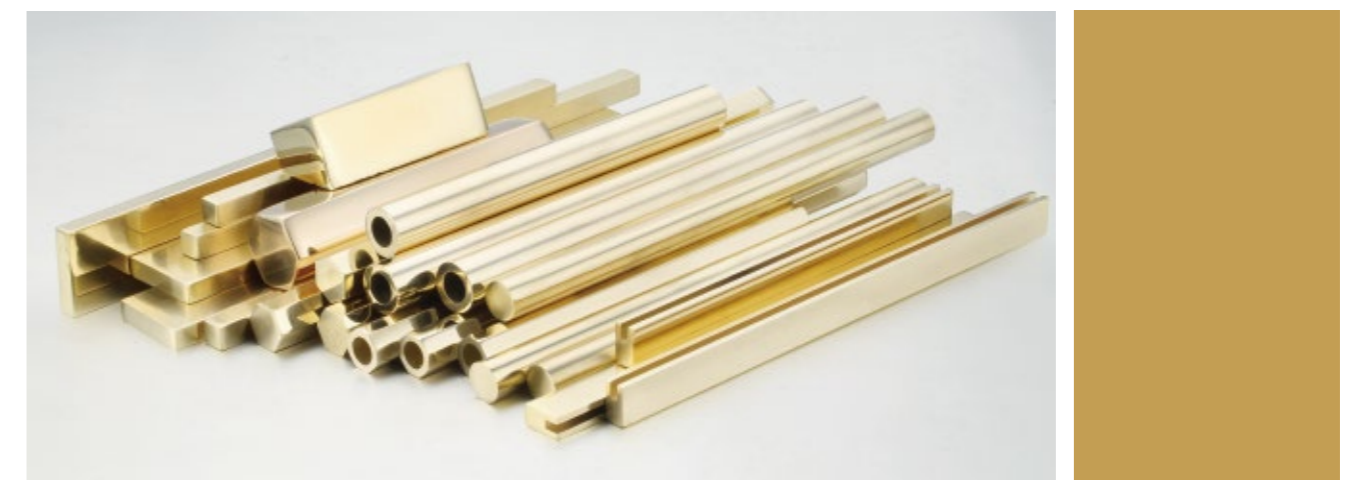
## 产品化学成分 & 标准

成品名称 Product name	牌号 Grade	化学成份 % Chemistry component %									
		Cu	Pb	Fe	Ni	Sn	Al	Zn	Mn	其他 总杂质	杂质总和
普通黄铜 Ordinary brass	H59	57.0~60.0	0.5	0.3				余量			1.0
	H62	60.5~63.5	0.08	0.15				余量			0.5
	H63	62.0~65.0	0.08	0.15				余量			0.5
	H65	63.0~68.5	0.09	0.07				余量			0.45
	H68	67.0~70.0	0.03	0.1				余量			0.3
铅黄铜 Lead brass (企标QB)	HPb58-2C	54.0~58.0	2.0~5.0					余量			
	HPb58-2A	56.0~60.0	2.0~3.2					余量			
	HPb59-1B	57.0~60.0	1.0~2.2	0.6				余量			1.0
铅黄铜 Lead brass (国标GB)	HPb59-1	57.0~60.0	0.8~1.9	0.5				余量			
	HPb59-2	57.0~60.0	1.5~2.5	0.5		0.5		余量			1
	HPb60-2	58.0~61.0	1.5~2.5	0.3				余量			0.8
	HPb60-3	58.0~61.0	2.5~3.5	0.3		0.3		余量			0.8
	HPb62-3	60.0~63.0	2.5~3.7	0.35				余量			0.85
铅黄铜 Lead brass (美标ASTM)	C37100	58.0~62.0	0.6~1.2	0.15				余量		0.4	
	C37700	58.0~61.0	1.5~2.5	0.3				余量		0.5	
	C37000	59.0~62.0	0.8~1.5	0.15				余量		0.4	
	C36000	60.0~63.0	2.5~3.0	0.35				余量		0.5	
铅黄铜 Lead brass (日标JIS)	C3601	59.0~63.0	1.8~3.7	0.3				余量	Fe+Sn0.5		
	C3602	59.0~63.0	1.8~3.7	0.5				余量	Fe+Sn1.0		
	C3603	57.0~61.0	1.8~3.7	0.35				余量	Fe+Sn0.6		
	C3604	57.0~61.0	1.8~3.7	0.5				余量	Fe+Sn1.0		
	C3771	57.0~61.0	1.0~2.5					余量	Fe+Sn1.0		
铅黄铜 Lead brass (欧标EN)	CW612N	59.0~60.0	1.6~2.5	0.3	0.3	0.3	0.05	余量		0.2	
	CW614N	57.0~59.0	2.5~3.5	0.3	0.3	0.3	0.05	余量		0.2	
	CW617N	57.0~59.0	1.6~2.5	0.3	0.3	0.3	0.05	余量		0.2	

# COMMON COPPER ALLOY TRADE MARK COMPARE TABULATION

## 常用铜合金 牌号对照表

成品名称 Product name	化学成份 % Chemistry component %							
	国标GB	国际标准ISO	美标ASTM	日标JIS	欧标EN	德标DIN	英标BS	法标NF
纯铜 Pure copper	T2	Cu-FRHC	C11000	C11000	CW004A	E-Cu58	C101	Cu-a1
	T3	Cu-FRTP	C12500	-	-	-	C104	-
磷脱氧铜 Phosphorous deoxidize copper	TP2	Cu-DHP	C12100	C1220	CW024A	SF-Cu	C106	Cu-b1
普通黄铜 Ordinary brass	H68	-	C26200	-	-	CuZn33	-	-
	H65	CuZn35	C27000	C2700	-	CuZn36	CZ107	CuZn33
	H63	CuZn37	C27200	C2720	CW509L	CuZn37	CZ108	CuZn37
	H62	CuZn40	C28000	C2800	CW508L	-	CZ109	CuZn40
铅黄铜 Lead brass	HPb63-3	-	C34500	C3560	-	CuZn36Pb3	CZ124	-
	HPb63-0.1	-	-	-	-	CuZn36Pb0.5	-	-
	HPb59-1	CuZn39Pb1	C37710	C3771	CW611N	CuZn40Pb2	CZ122	-
铅黄铜锭 Lead brass ingot	ZHD62	-	C85500	-	-	-	-	-
	ZHPbD59-1	-	-	-	-	-	PCB1	-
	ZHPbD60-2	GCuZn40Pb	-	-	-	G-CuZn37Pb	DCB3	CuZn40





# PRODUCT APPLICATIONS

## 应用领域

### 高端卫浴

HIGH-END BATHROOM ACCESSORIES



### 环保厨卫

ENVIRONMENTAL KITCHEN & BATH EQUIPMENT



### 阀门

VALVE



### 管件

FITTINGS



# COMPANY CULTURE

## 企业文化

**使命愿景：创造客户价值，打造百年企业  
成为行业标杆，为现代工业文明做贡献**

MISSION & VISION: CREATE CUSTOMER VALUE, BUILD A CENTURY-OLD COMPANY, BECOME THE INDUSTRY BENCHMARK, CONTRIBUTE TO MODERN INDUSTRIAL CIVILIZATION

**企业精神：天天求变，永不满足，勇于竞争，追求卓越**

CORPORATE SPIRIT: SEEK CHANGE EVERYDAY, NEVER BE SELF-SATISFIED, DARE TO INNOVATE, PURSUE EXCELLENCE

**核心价值观：学习，团队，诚信，责任，开放**

CORE VALUES: LEARNING, TEAM, INTEGRITY, RESPONSIBILITY, OPEN

**企业哲学：大道至简，千锤百炼**

CORPORATE PHILOSOPHY: SIMPLIFY COMPLEXITY, REPETITION CREATES THE MASTER

**质量观念：没有质量就没有一切**

QUALITY CONCEPT: WITHOUT QUALITY, THERE'S NOTHING

**企业与员工：相互尊重，互为伙伴，彼此成就**

ENTERPRISE AND EMPLOYEES: MUTUAL RESPECT, MUTUAL PARTNERS, MUTUAL ACHIEVEMENT