华耀

华耀新材料科技（苏州）有限公司

Huayao New Materials Technology (Suzhou) Co., Ltd.

长三角洛铜领导品牌

Leading brand of chromium copper in the Yangtze River Delta

中车指定专用铜

Special copper for CRRC

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公司简介

Company Introduction

华耀新材料科技（苏州）有限公司成立于2023年，凭借在合金铜领域的专业水平和成熟技术迅速崛起同时致力于打造“华耀”品牌，是一家集生产与销售， 内贸与外贸于一体的专业铜合金原材料批发零售公司。

公司产品涉及钨铜、铍铜、铬锆铜、碲青铜、锡青铜、磷青铜、铝青铜、硅青铜、硅黄铜、锰黄铜、无氧铜等特殊黄铜，同时延伸代加工部分铜产品；广泛应用于机械制造业、船舶、航空航天、医疗、电子、家电、能源等行业。

我们秉承“诚信、品质、坦诚、合作、共赢、感恩”的理念海纳百川，感谢您对华耀的信任和支持，让我们共同创造更美好的未来。

Huayao New Materials Technology (Suzhou) Co., Ltd. was established in 2023,the company rises rapidly with the professional knowledge and mature technology of alloy copper field , we are committed to creating the "Huayao" brand. We integrate production and sales, domestic and foreign trade in alloy copper material.

Our products include tungsten copper, beryllium copper, chromium–zirconium–copper, dysprosium bronze, tin bronze,,phosphorus bronze, aluminum bronze, silicon bronze, manganese brass, manganese brass ,Oxygen–free copper, other special brass,and some processing products of copper; These products are widely used in machinery manufacturing, ships, aerospace, medical, electronics, home appliances, energy and other industries.

We adhere to the concept of " Integrity, Quality, Frankness, Cooperaiton, Win–win and Gratitude”

Thank you for your trust and support for Hua Yao and let us create a better future.

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钨、钼铜系列

Tungsten copper and molybdenum copper series

追/求/永/恒　创/造/无/限

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Tungsten-copper alloy has a wide range of applications, mainly used to make arc-resistant high-voltage electrical switch contacts and rocket nozzle throat liner, tail rudder and other high-temperature components. It is also used to manufacture electrode for electrical machining, high-temperature die, and other products that require conductive and thermal properties and high temperatures. Tungsten-copper is made of fine tungsten and copper powder by first-class immersion sintering process. It can withstand high temperature and high stress of nearly 2000 degrees. It has high melting point, high hardness, burn resistance and good adhesion resistance, high surface finish, high precision and low loss. CU-W is widely used as contact and protective ring for high voltage and ultra–hydraulic switches and circuit breakers, aswell as raw block material for electric heating piers, conducting nozzle for automatic submerged arc welding, plasma cutting nozzles, welding machines, welding heads for butt welders, roller wheels, gas–sealed electrodes and spark electrodes, spot welding, andtouch welding materials.







W–CU alloy combines the advantages of W and CU. W has high melting point (W = 3410 ° C, CU = 1080 ° C) and high density (W = 19.25 g/cm, Cu = 8.92/cm3), and copper has excellent electrical and thermal conductivity. Therefore, W–CU alloy (WCU7 ~ WCU50) has uniform microstructure, high temperature resistance, high strength, arc ablation resistance and high density, moderate electrical and thermal conductivity.

Tungsten copper chemical composition and mechanical properties:

Chemical composition (%)	铜（Cu）	铍（Be）	钴（Co）	钨（W）
	30 ± 2	1.75–2.3	0.35–0.65	Allowance
	硼（B）	镍（NI）	锆（Zr）	Total impurities
				<0.5
Mechanical properties	Hardness（HRC）	Tensile strength	Conductivity（MS/%）	
	184HB–2110	798	≥42	



铬锆铜系列

Cr Zr Cu Series

追/求/永/恒　创/造/无/限

Chase Eternity, Create Infinity

Cr–Zr–Cu has high strength and hardness, good electrical and thermal conductivity, good wear resistance and anti–wear resistance. It is used in motor rectifier, spot welder, seam welder, butt welder electrodes, and other high–temperature requiring strength, hardness, and conductivity . It has better mirror surface thatcan be etched to make EDM electrode, and the standing property is good. It has the effect which is difficult to achieve by pure red copper, such as thin slice.







CR–ZR–CU has good electrical conductivity, thermal conductivity, high hardness, wear and explosion resistance, crack resistance and high softening temperature, less electrode loss during welding, fast welding speed and low welding cost, which is suitable for welding machine as the electrode of the pipe, but the performance on electroplating workpiece is common.

CR–ZR–CU copper chemical composition and mechanical properties:

Name	No	Chemical composition %		
		Cu	Zr	Cr
CrZrCu	C18150/CuCrZr	Allowance	0.05/0.25	0.5–1.5
CrCu	C18200	Allowance	/	0.6–1.2
ZrCu	C15000	Allowance	0.1–0.2	/
NiCrCu	C18000	Allowance	Ni:1.8–3.0 Si:0.4–0.8	0.1–0.8



铍、碲青铜系列

Beryllium and tellurium bronze series

追/求/永/恒　创/造/无/限

Chase Eternity, Create Infinity

Beryllium copper is the main element of beryllium alloy elements of copper, also known as beryllium bronze. It is the best high-grade elastic material in copper alloy, with high strength, elasticity, highly conductive, fatigue strength, small elastic hysteresis, corrosion resistance and wear resistance. It is cold-resistant, highly conductive, non-magnetic, sparkless under impact with sparks and a series of excellent physical, chemical, and mechanical properties.







Beryllium bronze-chemical composition and mechanical properties:

Chemical composition (%)	铜（Cu）	铍（Be）	铬（Co）	锑（Sb）
	Allowance	1.9-2.15		
	硼（B）	镍（NI）	锆（Zr）	Total impurities
		0.35-0.75		≤0.8
Mechanical properties	Hardness（HRC）	Tensile strength	Conductivity（MS/%）	
	≥38-42	≥1000	≥17	

Beryllium bronze-chemical composition and mechanical properties:

Name	No	Chemical composition%				
		Cu+Ag+Te	P	Te	Ni+Co	Rare Earths
Ber	C14500/TTe0.5	99.9	0.004-0.012	0.4-0.7	/	Can be customized according to product characteristics
	C19100	98.5	0.1-0.25	0.4-0.7	0.8-1.3	

Mechanical properties	Tensile strength MPa	yield MPa	Hardness（HRC）	Elongation%	Conductivity（MS/%）
	222-642	62-568	HV65-140	3-50	≥90



锡磷、铝青铜系列

Tin phosphorus, aluminum bronze series

追/求/永/恒　创/造/无/限

Chase Eternity, Create Infinity

Tin phosphorus bronze has higher corrosion resistanceand wear resistance, which is sparkless under impact. It is suitable for medium speed and heavy load bearing working temperature up to 250 degrees, with automatic self–centering. It is not sensitive to deflection, with high bearing force and uniform bearing capacity , which can be simultaneously subjected to radial load . it has the characteristics of self–lubrication without maintenance etc.

Aluminum bronze has better wear and corrosion resistance, mechanical properties than brass and tin bronze, Aluminum bronze has good wear and corrosion resistance, and better mechanical properties than tin bronze. In practice, the aluminum content in aluminum bronze is between 5%–12%. The aluminum bronze with a aluminum content of 5%–7% exhibits the best plasticity, which is suitable for cold processing. Aluminum bronze has higher wear resistance and corrosion resistance th. Aluminum bronze has higher wear resistance and corrosion resistance than brass and tin bronze in atmosphere, sea water, sea water carbonic acid and most organic acids.







Tin phosphor bronze chemical composition and mechanical properties:

Chemical composition（%）	铜（Cu）	铅（Pb）	锌（Zn）	锡（Sn）
	Allowance	≥0.05	≤0.20	0.35–0.90
	磷（P）	镍（NI）	铁（Fe）	Total impurities
	0.0.3–0.35		≤0.10	≤0.20
Mechanical properties	Hardness（HRC）	Tensile strength	Conductivity（MS/%）	
	≥195	≥635	≥10	

Chemical composition and mechanical properties of aluminum bronze:

Name	No	Chemical composition%			
		Cu	Al	Mn	Fe
Aluminum bronze	QAl9–4/C61900	Allowance	8–10	0.5	2–4
Aluminum–nickel bronze	QAl10–4–4/C63000	Allowance	9.5–11	Ni:0.3	3.5–5.5

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锰、硅青铜系列

Manganese and silicon bronze series

追/求/永/恒　创/造/无/限

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Silicon bronze has good mechanical, corrosion–resistant, wear–resistant and welding properties, which is sparkless under magnetic impact and widely used in high and low–voltage electrical applications, high–iron contact wire, fasteners, etc. due to its excellent foundry property, high abrasion resistance and chemical stability. It can be used to make small fulcrum, eccentric center of gravity and strong vibration resistant figures, thereby enhancing the adornment of ancient bronzes, with permanent memorial characteristics.







Chemical composition and mechanical properties of silicon bronze:

Name	No	Chemical composition%			
		Cu	Si	Ni	Mn
Chemical	QSi3–1	Allowance	2.7–3.5	0.2	1–1.5
	QSi1–3/CuNi3Si	Allowance	0.6–1.1	2.4–3.4	0.1–0.4

Manganese brass–chemical composition and mechanical properties:

Name	No	Chemical composition%				
		Cu	Al	Mn	Zn	Fe
Manganese	HMn62–3–3–4	60–63	3.5–6.5	2–4	Allowance	2–4



紫、黄铜系列

Purple and brass series

追/求/永/恒　创/造/无/限

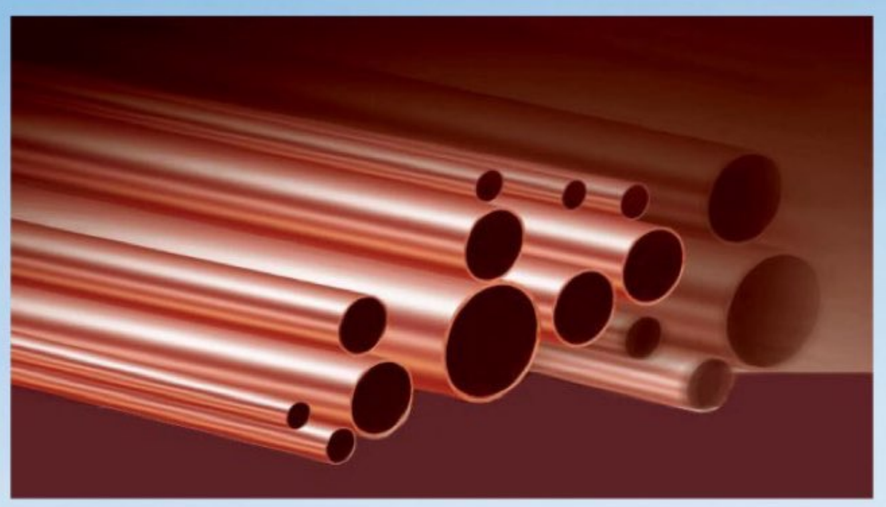
Chase Eternity, Create Infinity

Red Copper, also known as pure copper, includes oxygen–free copper and red copper, has good electrical conductivity, thermal conductivity, corrosion resistance, and processing properties. Which is suitable for welding and brazing. It has little effect on the properties of conductivity, heat conduction and processing, but it is easy to cause; disease; and is not suitable to be processed and used in high temperature reduction atmosphere.

The general brass is divided into environmental protection brass and lead brass, tin brass, etc. . It is widely used, and characterized by good machinability, and good mechanical properties. It can withstand cold and hot processing, with the characteristics of easy welding, good brazing, stability to corrosion , but it has a tendency to corrosion cracking, which is mainly used in air–conditioning valves and hardware machinery.







Red copper chemical composition and mechanical properties:

Chemical composition (%)	铜（Cu）	铅（Pb）	锌（Zn）	铁（Fe）
	99.97	0.003	0.003	0.004
	磷（P）	镍（NI）	锆（Zr）	Total impurities
	0.002			
Mechanical properties	Hardness（HRC）	Tensile strength	Conductivity（MS/%）	
	60–120	195–350	⩾3	

Chemical composition and mechanical properties of brass:

Chemical composition (%)	铜（Cu）	铅（Pb）	镍（Ni）	硼（B）
	57–60	0.8–1.9	10	
	锌（Zn）	镍（NI）	铁（Fe）	Total impurities
	Allowance	0.35–0.75	⩽0.5	1.0
Mechanical properties	Hardness（HRC）	Tensile strength	Conductivity（MS/%）	
		⩾420	⩾12	



延伸代加工产品

Extended processing products

追/求/永/恒　创/造/无/限

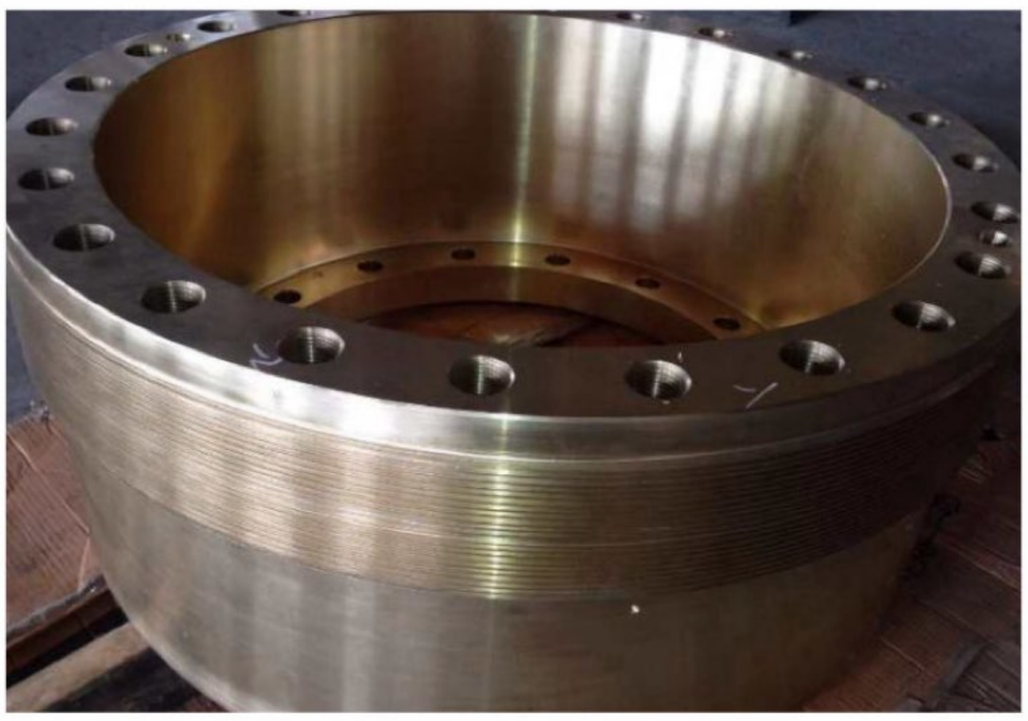
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延伸代加工产品

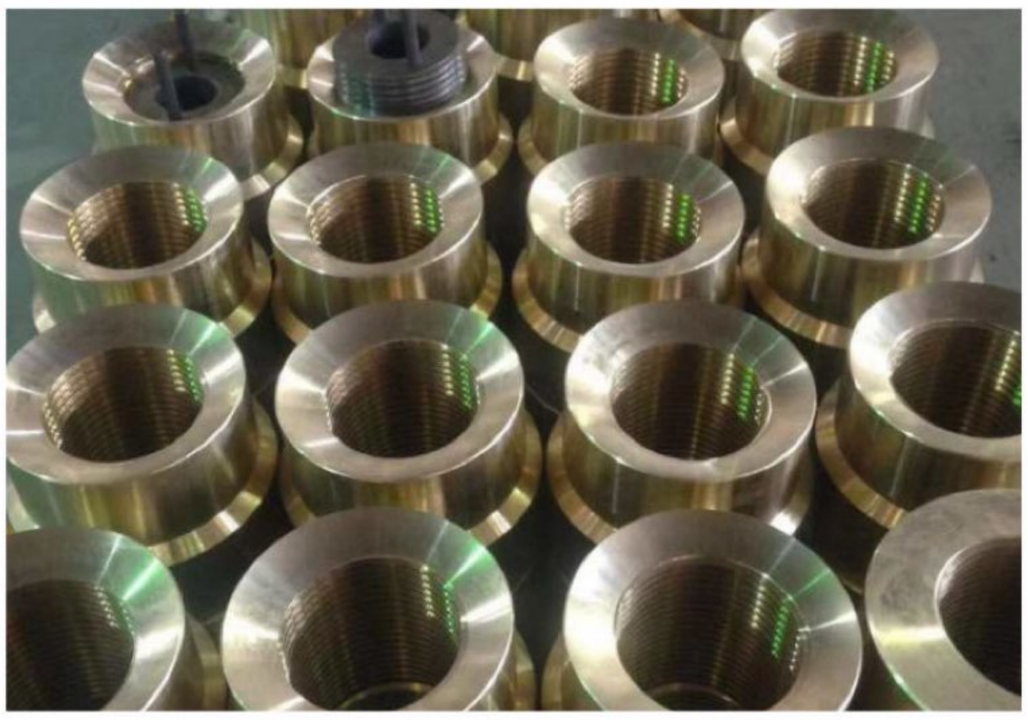
Extended processing products

追/求/永/恒　创/造/无/限

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质量管理体系证书

Quality Management System Certificate

追/求/永/恒　创/造/无/限

Chase Eternity, Create Infinity

苏州莱标标准认证有限公司

质量管理体系认证证书

兹证明

华耀新材料科技（苏州）有限公司

统一社会信用代码：**91320506MACWY6AF6L**

注册地址：苏州市吴中区临湖镇浦庄大道 3075 号

经营地址：江苏省苏州市吴中区临湖镇浦庄大道 3075 号

已建立的质量管理体系符合

GB/T 19001-2016/ISO 9001:2015 标准

证书覆盖业务范围：**铜合金的销售**

证书编号：33224Q30121R0S

证书颁发日期：2024-04-10

首次注册日期：2024-04-10

证书有效期至：2027-04-09

第一次监督	第二次监督

本证书在国家规定的行政许可、资质有效期内使用有效

获证组织必须定期接受监督审核，经审核合格并加贴监督标识，本证书方继续有效

SUZHOU LQA STANDARD CERTIFICATION CO., LTD. 苏州莱标标准认证有限公司 证书专用章

签　发

中国认可

国际互认

管理体系

MANAGEMENT SYSTEM

CNAS C306-M

地址：中国江苏苏州高新区竹园路 209 号（215011）

本证书信息可在国家认证认可监督管理委员会官方网站（www.cnca.gov.cn）上查询



质量管理体系证书

Quality Management System Certificate

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Chase Eternity, Create Infinity

Suzhou LQA Standard Certification Co., Ltd.

QUALITY MANAGEMENT SYSTEM CERTIFICATE

This certifies that the Quality Management System of

Huayao New Materials Technology (Suzhou) Co., Ltd.

Unified Social Credit Code: **91320506MACWY6AF6L**

Registration Address: No. 3075 Puzhuang Avenue, Linhu Town, Wuzhong District, Suzhou City

Business Address: No. 3075 Puzhuang Avenue, Linhu Town, Wuzhong District, Suzhou City, Jiangsu Province, China

has been assessed by LQA and found to be in conformance to the following standard:

GB/T 19001-2016/ISO 9001:2015

Scope of Certification:: Sales of Copper Alloys

Certificate Number:: 33224Q30121R0S

Certificate Issue Date: 10-Apr-2024

Initial Registration Date: 10-Apr-2024

Expiration Date: 09-Apr-2027

First Surveillance Audit	Second Surveillance Audit

This certificate is valid within the period of the administrative license and qualification prescribed by state;
The certified organization must do the regular surveillance audit, get valid audit conclusion and add the surveillance identification to maintain the effective of the certificate

签　发

中国认可
国际互认
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CNAS C306-M

Address: No.209 Zhuyuan Rd. Suzhou City, Jiangsu Province, China(215011)

The Certificate information can be searched on the website of CNCA (www.cnca.gov.cn)



合作客户展示

Cooperative customer display

追/求/永/恒　创/造/无/限

Chase Eternity, Create Infinity

NEWAY

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Rocoi 洛凯

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Amtek Re-engineering Success

GL 国力股份 电真空科技

Schneider Electric



合作客户展示

Cooperative customer display

追/求/永/恒　创/造/无/限

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國立醫療

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NACKS

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Bank name :Agricultural Bank of China Limited
Bank Address： Suzhou Puzhen Branch
Bank Code： 103305054234
Bank account :1054230104000140 3
Website： www.hyocopper.com