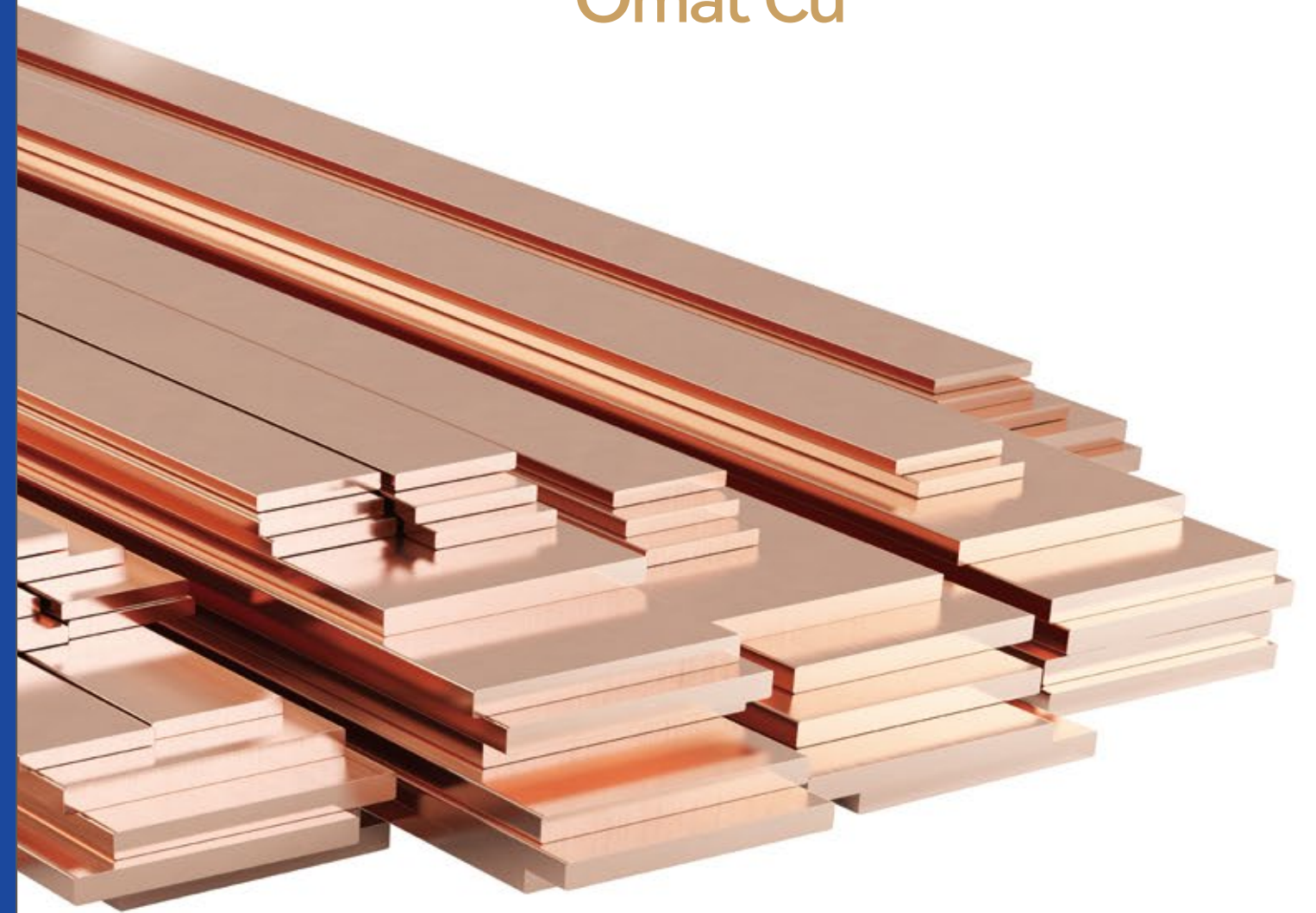


Omat 欧莱新材 股票代码
688530

欧莱铜
Omat Cu



Omat 欧莱新材 股票代码
688530

广东欧莱新金属材料有限公司

Omat New Metal Materials(Guangdong)Co.,Ltd.

☎ 400-931-3109

✉ cu@omat.com.cn

🌐 cu.omat.com.cn

📍 乳源瑶族自治县乳城镇北环东路11号

No.11 North Ring East Road,Rucheng Town,
Ruyuan Yao Autonomous County,Shaoguan,Guangdong,China

广东欧莱高新材料股份有限公司

Omat Advanced Materials(Guangdong)Co.,Ltd.

广东省韶关市武江区创业路5号

No.5 Chuangye Road, Wujiang District, Shaoguan,
Guangdong, China

合肥欧莱高新材料有限公司

Omat Advanced Materials (HeFei) Co.,Ltd.

安徽省合肥市新站区铜陵北路999号

No. 999 Tongling North Road, Xinzhan District,
Hefei City,AnHui,China

东莞市欧莱溅射靶材有限公司

Omat Sputtering Targets(Dong Guan)Co.,Ltd.

广东省东莞市厚街镇汀山村汀山路121号

No.121,TingShan Road,TingShan Village,Houjie Town,
Dongguan,Guangdong,China

广东欧莱高新材料股份有限公司深圳分公司

Omat Advanced Materials(Guangdong)Co.,Ltd.Shenzhen Branch

广东省深圳市南山区科技中三路国人大厦A栋505

505, Building A, Guoren Building, kejizhong Third Road,
Nanshan District,Shenzhen,GuangDong, China



高纯无氧铜排

High-purity Oxygen-free Copper Busbar

Company Profile

企业简介

广东欧莱新金属材料有限公司 是广东欧莱高新材料股份有限公司全资子公司，位于广东韶关乳源瑶族自治县，为欧莱新材高纯无氧铜生产基地，除了生产高纯微晶磷铜球产品，还具有5500吨挤压机（中国同行业最大的挤压机之一），可以生产大尺寸铜及铜镍合金管材，另有无氧铜杆、高导铜排、高纯无氧铜板等铜产品。

Guangdong Omat New Metal Materials Co., Ltd. is a wholly-owned subsidiary of Omat Advanced Materials (Guangdong) Co., Ltd. Located in Ruyuan Yao Autonomous County, Shaoguan, Guangdong, it serves as Omat's production base for high-purity oxygen-free copper. In addition to manufacturing high purity micro-grain phosphor-copper balls, the facility is equipped with a 5,500-ton extrusion press (one of the largest extrusion presses in the same industry in China), capable of producing large-sized copper and copper-nickel alloy tubes. Other copper products include oxygen-free copper rods, high-conductivity copper busbars, and high-purity oxygen-free copper plates.



Our Advantages

我们的优势

原料优质 High-quality Raw Materials

高纯A级电解铜原料品质的保证。
High-purity Grade A electrolytic copper raw materials ensure quality.

地理优势 Geographical Advantages

靠近珠三角经济圈，可以更高效服务客户
Close to the Pearl River Delta economic circle, we can serve customers more efficiently.

精确检测 Precise Detection

先进的检测设备确保检测更准确。
Advanced testing equipment ensures more accurate detection.

高效产线 High-efficiency Production Line

自动化生产线，更高效，更稳定。
Automated production lines are more efficient and stable.

品牌信誉 Brand Reputation

上市公司，合作更放心。
Listed company offers more reassuring cooperation.



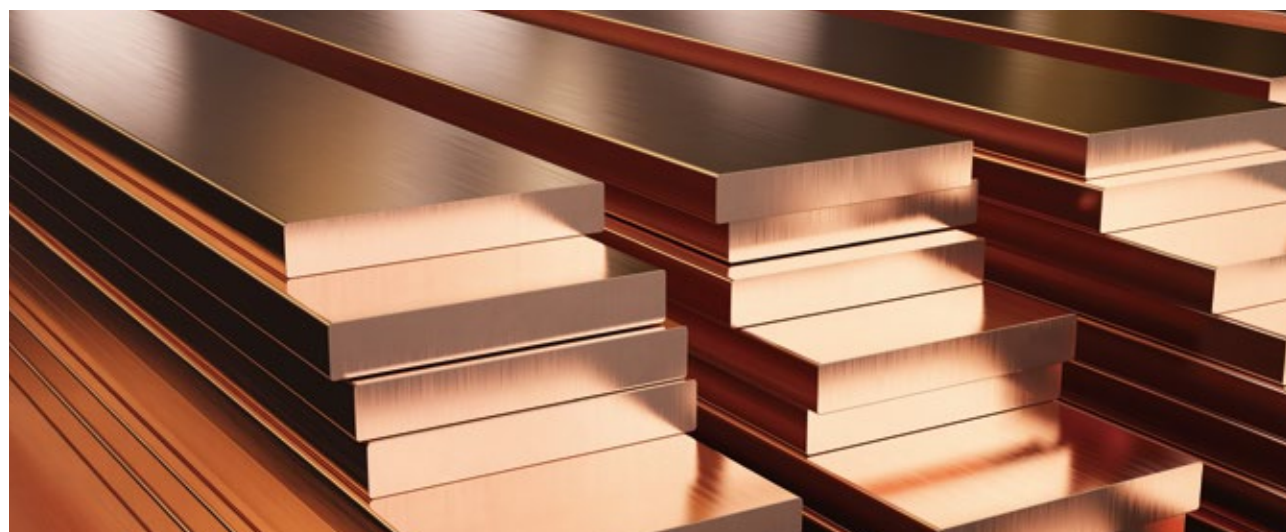
High-purity Oxygen-free Copper Busbar 高纯无氧铜排

规划产能：2万吨/年

Capacity Planning: 30,000 tons/year

高纯无氧铜排是一种高纯度无氧铜材料，具有优良的导电性和导热性。因其高纯度和无氧特性，它能够有效降低电阻，减少能量损失，提高电能传输效率，并确保设备的安全运行。同时，高纯无氧铜排还具备良好的加工性能和耐腐蚀性，能够满足各种复杂工艺和严苛环境条件的要求。广泛应用于高压电器、精密仪器、电线电缆、电子设备等。可提供T1、T2、T3牌号铜排，或其他定制成分产品。

High-purity oxygen-free copper busbars are a type of high-purity oxygen-free copper material, featuring excellent electrical and thermal conductivity. Due to their high purity and oxygen-free properties, they can effectively reduce resistance and minimize energy loss, improve the efficiency of electrical energy transmission, and ensure the safe operation of equipment. Meanwhile, high-purity oxygen-free copper busbars also have good processing performance and corrosion resistance, capable of meeting the requirements of various complex processes and harsh environmental conditions. They are widely used in high-voltage electrical appliances, precision instruments, wires and cables, electronic equipments, etc. Copper busbars of grades T1, T2, and T3 or other products with customized compositions can be provided.



● 核心特性 Core Features

铜含量高，电阻率低，过载能力强，晶粒细密均匀，致密度高，延展性好。

High copper content, low resistivity, strong overload capacity, fine and uniform grain structure, high compactness, and good ductility.

● 产品规格 Product Specifications

截面积16000mm²以下，宽度420mm以内。

The cross-sectional area is below 16,000 mm², and the width is within 420 mm.

● 生产工序 Production Process



● 异形铜排 Special-shaped Copper Busbar

可生产截面积在16000平方毫米范围内的软态或硬态铜排、棒产品。产品的质量稳定，铜量高、氧含量低,组织致密均匀,电阻率低，导电率高,导热系数高、散热快，截面形状多样,尺寸精确,电流分布均匀，载流量大，能量损耗小，机械性能优异，也可按客户图纸要求定制各种复杂断面型材。

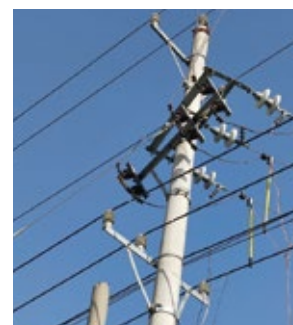


It can produce soft or hard copper busbars and rods with a cross-sectional area within 16,000 square millimeters. The products feature stable quality, high copper content, low oxygen content, dense and uniform structure, low resistivity, high conductivity, high thermal conductivity, fast heat dissipation, diverse cross-sectional shapes, precise dimensions, uniform current distribution, large current-carrying capacity, low energy loss, and excellent mechanical properties. It can also customize various complex cross-section profiles according to customer drawings.

● 应用领域 Application Fields

广泛应用于许多领域，包括电力电子、电气绝缘：高低压电器、开关触头、成套配电柜、母线槽、汇流排，电机换向器片大型水轮发电机磁极线圈绕组，各种开关动、静触头，熔断器触头，内冷发电机转子线圈绕组及过度排、连接件等。轨道交通领域，异形铜排可以被制成牵引网用的馈电线，包括地铁、磁悬浮、铁路等；在工业和汽车制造中，异形铜排可作为接地线路。

It is widely used in many fields, including power electronics and electrical insulation: high and low voltage electrical appliances, switch contacts, complete power distribution cabinets, bus ducts, busbars, commutator segments of motors, pole coil windings of large hydro-generators, various moving and static contacts of switches, fuse contacts, rotor coil windings and transition buses, connectors, etc. of internal cooling generators. In the rail transit field, special-shaped copper busbars can be made into feeder wires for traction networks, including subways, maglev trains, railways, etc.; in industrial and automotive manufacturing, special-shaped copper busbars can be used as grounding lines.



● 检测研发设备 Testing and R&D Equipments



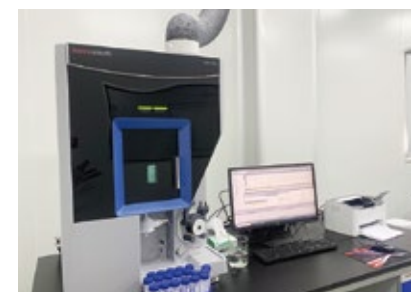
扫描电镜
SEM: Scanning Electron Microscope



直读光谱
OES: Optical Emission Spectrometer



金相显微镜
Metallographic Microscope



电感耦合等离子体发射光谱仪
iCAP PRO

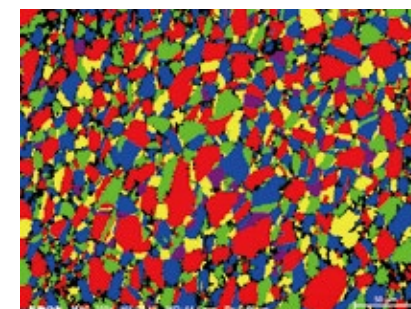


四探针电阻测量系统
Four Probe Resistance Measurement System

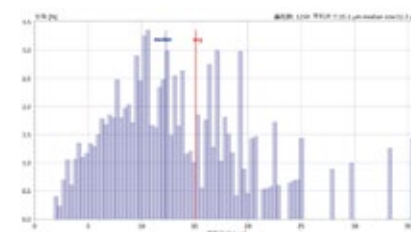


布鲁克台阶仪
Bruker Step Profiler

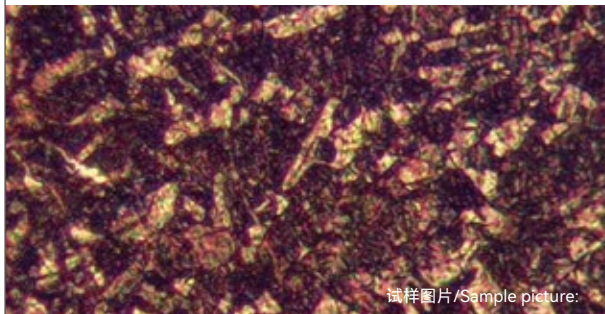
● 检测报告 Inspection Report



晶粒分布 The Distribution of Grains



晶粒尺寸 Grain Size

评定级别 Assessment Level
9.0级, 单位面积平均晶粒数nA: 3968.00个/mm², 晶粒的平均面积a: 0.0002520mm², 晶粒平均直径d: 0.01590mm。 Grade 9.0, Average number of grains per unit area nA: 3968.00 grains/mm², Average area of grains a: 0.0002520 mm², Average diameter of grains d: 0.01590 mm.


试样图片/Sample picture: