Shandong Xin Wugang Steel

COPPER PRODUCT CATALOG

WIDELY USED

SHEET & PLATE

COIL & STRIP

TUBE & PIPE

BAR & ROD & WIRE

ANTI-CORROSION PLATES | MULTI-SPEC SUPPLY | FOR ENGINEERING PROJECTS

About us.

山东鑫武钢铁有限公司是一家综合性钢铁企业，深耕钢铁行业多年，依托完善的产业链布局、先进的生产装备、严苛的质量体系和贴心的全域服务，稳步发展为具有竞争力与口碑的标杆型钢铁企业，广泛服务于基建工程、机械制造、汽车工业、钢结构等多个核心领域。公司秉持客户至上、诚信为本、服务为先的经营宗旨，打造一站式全周期贴心服务体系。持续为客户提供高品质钢铁产品与一站式优质服务，致力于打造国内一流的现代化钢铁综合服务商与各界合作伙伴携手共赢、共创未来!

Shandong Xinwugang Steel Co., Ltd. is a comprehensive iron and steel enterprise with years of profound experience in the steel industry. Backed by a complete industrial chain layout, advanced production equipment, stringent quality management systems and thoughtful all-round services, we have steadily grown into a benchmark steel enterprise with strong competitiveness and a solid reputation. Our products widely serve a host of core sectors including infrastructure engineering, machinery manufacturing, automobile industry and steel structure construction.

Adhering to the business tenets of "customer supremacy, integrity-based operation and service first", the company has built a one-stop full-cycle considerate service system. We consistently supply high-quality steel products and all-in-one premium services to clients, and strive to become a first-class modern comprehensive steel service provider nationwide. We look forward to win-win cooperation and a shared bright future with all partners from all walks of life!

The most dynamic enterprise
and leader in the steel trading industry.

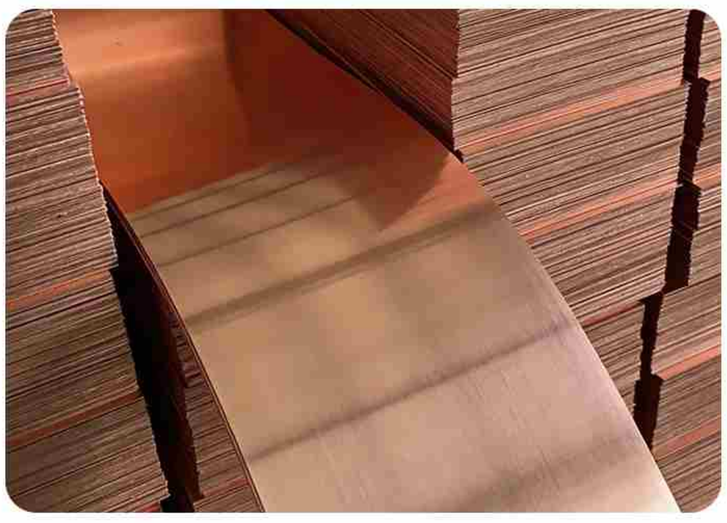
最具活力企业，钢铁贸易行业的领导者。



COPPER SHEET & PLATE

Product Description

♦ PURE COPPER SHEET





Description- Pure Copper Sheet :

Standard: GB/T 2040-2017、EN 1652、EN 1187、ASTM B152/B152M、JIS H3100、GOST 495-2017、GOST 859 、ISO 13337

Grade: T1 、T2 、TU1/TU2 、TP1/TP2、C10100（OFHC）、C11000（ETP）、C12200（DHP ）、CW004A (C11000)、CW003A (OFHC)、CW006A (DHP)、C1100、C1020、M 00 high-purity copper 、M 0、M 1、M 2 (M 1=benchmark T2/C11000, commonly used in the Russian market)

Conventional standard size:

Thickness specification model (mm, metric universal)

Thin plates: 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.8, 1.0, 1.2, 1.5, 2.0, 2.5, 3.0

Medium and thick plates: 4, 5, 6, 8, 10, 12, 15, 20, 25, 30, 40, 50, 60, 80, 100

Thickness tolerance: thin plate ± 0.02~0.05mm; medium thick plate ± 0.1~0.5mm

Standard width: 1000/1220/1500/2000mm; length: 2000/2440/3000/4000mm; customizable for any cutting

Minimum cutting size: 50 × 50mm; maximum whole board size: 4000 × 12000mm customized

Packaging: Plastic protective film+wooden pallet, export moisture-proof vacuum packaging

Hardness processing grade:

Soft state: HV40~60, fully annealed, bent and stamped, preferred for batteries and heat dissipation components

1/4H quarter hard: HV60~80, moderate toughness, universal stamping conductive parts

1/2H semi hard: HV80~100, moderate strength, busbar gasket, decorative board

H Hard: HV100~130, high rigidity, conductive gasket, wear-resistant lining plate

EH superhard: HV130+, precision mold, wear-resistant conductive structural components

Purity level:

Grade 1 OFHC oxygen free copper: Cu ⩾ 99.99%, electronic semiconductor, vacuum equipment.

Grade 2 ETP electrolytic copper: Cu ⩾ 99.90%, General Electric, heat dissipation (global mainstream).

Grade 3 DHP phosphorus deoxidized copper: Cu ⩾ 99.85%, pipeline and welding equipment, resistant to high temperature oxidation.

Description- Pure Copper Sheet :

Surface process: Bright rolled surface, acid pickling passivation, polished mirror finish, tin/silver plating, rust proof oil sealing, brushed matte finish.

Application: Electrical conductivity: distribution cabinet conductive gasket, battery current collector plate, grounding copper sheet, new energy battery terminal ear.

Heat dissipation: radiator substrate, water-cooled heat dissipation plate, air conditioning heat exchanger substrate, photovoltaic heat dissipation components.

Chemical anti-corrosion: corrosion-resistant equipment lining, seawater desalination equipment lining, acid and alkali containers.

Electronic semiconductors: Oxygen free copper plates are used for vacuum chambers, chip carriers, and RF shielding components.

Decorative architecture: purple copper decorative curtain wall, roof waterproof copper plate, hand forged crafts.

♦ BRASS SHEET







Description- Brass Sheet :

Standard: GB/T 2040-2017；EN 1652；ASTM B19/B19M；JIS H3300； GOST 495-2017、GOST 15527；ISO 13337

Grade: C26000（H70/H30）、C27000（H65/H35）、C28000（H60/H40 ）、C23000、CW505L (C26000)、CW506L (C27000)、CW507L (C28000)、H62、H65、H68、H70、H80、H90、Л62、Л68、Л70、Л90（Л=Латунь Brass）

Conventional standard size:

Thickness of 0.1-100mm (thin plate 0.1-3.0mm; medium thick plate 4-100mm),

The board surface is 1000 × 2000~2000 × 4000mm (standard board surfaces: 1000 × 2000, 1220 × 2440, 1500 × 3000mm), with a tolerance of ± 0.03~0.6mm increasing with thickness; Customizable cutting of any length and width.

Hardness grade (same as pure copper grading O/1/4H/1/2H/H/EH):

Soft state: jewelry, deep drawn crafts; 1/2H semi hard: valve, metal stamping; Full hardness: wear-resistant lining, gear blank**.**

Corrosion resistance grade: Ordinary brass (freshwater indoor), navy brass (seawater marine environment), lead brass HPb59-1 (easy cutting mechanical processing).

Surface process: Bright rolling, acid pickling and passivation, brushed antique copper, mirror polishing, nickel/chromium plating, rust proof sealing oil.

Description- Brass Sheet :

Application:

Hardware stamping: valve body, lock housing, instrument housing, plumbing hardware accessories.

Decorative building materials: brass decorative curtain walls, elevator panels, antique copper crafts, signs and badges.

Marine vessels: Navy brass plates are used for ship pipeline liners and seawater valve shells.

Electronic connectors: terminal stamping parts, socket conductive spring plates, RF shielding shells.

Mechanical processing: Processing of gears, bushings, and wear-resistant sliders using easy to cut lead brass plates.

♦ COPPER ALLOY SHEET





Description- Copper Alloy Sheet :

Standard: GB/T 2040； EN 1652； ASTM B103 (phosphor bronze)/B194 (beryllium copper)/B122 (white copper); JIS H3130； GOST 495、GOST 18175； ISO 13337

Grade: C51900、C52100、QSn6.5-0.1、БрОФ6.5-0.1、C17200、QBe2、БрБ2、C71500、B10、B30、MH10、MH30、C95400、QAl9-4、БрА9-4、C65500、QSi3-1

Conventional standard size:

Thickness 0.2~80mm, board surface 1000~2000mm wide, length 2000~4000mm, high-precision thin material tolerance ± 0.01mm.

Surface process: Bright rolling, acid pickling passivation, age hardening heat treatment, polishing, silver plating (high-frequency conductive parts).

Application:

Electronic precision spring plate: phosphor bronze/beryllium copper plate is used for connectors, switch spring plates, relay conductive spring plates.

Marine anti-corrosion: B10/B30 white copper plate is used for seawater heat exchangers, ship condensers, and island chemical equipment.

Wear resistant machinery: aluminum bronze plate wear-resistant slider, engineering machinery lining plate, valve wear-resistant seal.

Instrumentation military industry: beryllium copper vacuum instruments, aerospace conductive wear-resistant components.

Chemical equipment: Corrosion resistant reactor liner plates made of silicon bronze and aluminum bronze.

Detailed specifications

1.Mainstream Brand Chemical Composition and Purity

牌号 Chemical element	铜纯度≥ Copper purity	主要特点 Main Features	性能作用 Performance Function
T1	99.95%	超高纯、极低杂质、导电最佳 Ultra high purity, extremely low impurities, and optimal conductivity	精密电气、航空、高端换热设备 Precision Electrical, Aerospace, and High-End Heat
T2	99.90%	工业标准高纯铜、性能均衡 Industrial standard high-purity copper with balanced performance	电力母线、开关、化工、通用加工 Power bus, switch, chemical, general processing
T3	99.70%	性价比高、性能稳定 High cost-effectiveness and stable performance	普通钣金、装饰、非精密结构 Ordinary sheet metal, decoration, non precision structure
H62/H65	62%/65% copper+zinc	硬度高、耐磨、强度大 High hardness, wear resistance, and strong strength	机械配件、模具垫片、装饰板 Mechanical parts, mold gaskets, decorative panels

2.Complete mechanical performance parameters of copper plate (T2 national standard)

力学项目 Mechanics project	软态(M) Soft state	半硬(Y2) Semi hard	硬态(Y) Hard state
抗拉强度(MPa) Tensile strength	210 ~ 240	240 ~ 300	≥300
屈服强度(MPa) Yield strength	≤60	120 ~ 180	≥200
断后伸长率(%) Post fracture elongation	≥40	≥20	≥6
维氏硬度(HV) Vickers hardness	60 ~ 80	85 ~ 110	115 ~ 135
弹性模量(GPa) Elastic modulus	110	110	110

COPPER COIL & STRIP

Product Description

♦ COPPER COIL & STRIP





Description- Copper Coil & Strip :

Standard: GB/T 2059-2017；EN 1652；ASTM B152；JIS H3300；GOST 495；ISO 13337

Grade: T1 、T2 、TU1/TU2 、TP1/TP2、C10100（OFHC）、C11000（ETP）、C12200（DHP ）、CW004A (C11000)、CW003A (OFHC)、CW006A (DHP)、C1100、C1020、M 00 high-purity copper, M 0, M 1, M 2 (M 1=benchmark T2/C11000, commonly used in the Russian market)

Conventional standard size:

Thickness specification mm：0.05、0.08、0.1、0.15、0.2、0.3、0.4、0.5、0.6、0.8、1.0、1.2、1.5、2.0、3.0

Width standard: 10 mm、20、30、50、80、100、150、200、300、400、500、600、1000、1220mm

Roll weight: 50kg, 100kg, 200kg, 500kg, 1000kg industrial large roll.

Thickness tolerance ± 0.005~0.03mm (ultra-thin precision strip); Width tolerance ± 0.1~0.5mm; standard roll inner diameter 300/400/500mm; minimum width for slitting narrow strips 5mm.

Hardness processing grade:

Soft state: HV40~60, fully annealed, bent and stamped, preferred for batteries and heat dissipation components

1/4H quarter hard: HV60~80, moderate toughness, universal stamping conductive parts

1/2H semi hard: HV80~100, moderate strength, busbar gasket, decorative board

H Hard: HV100~130, high rigidity, conductive gasket, wear-resistant lining plate

EH superhard: HV130+, precision mold, wear-resistant conductive structural components

Surface : Bright rolling, passivation and rust prevention, tin/silver plating, matte drawing, electrolytic polishing.

Application : New energy lithium batteries: power battery ear copper strip, busbar, flexible connection copper foil substrate.

Electrical busbar: distribution copper bar slitting narrowband, transformer winding copper strip.

Heat dissipation industry: continuous stamping substrate for heat sinks, coil material for water-cooled plates.

Electronic etching: PCB etching substrate, RF shielding cover stamping roll material.

Pipeline processing: thin-walled copper tube continuous stamping blank.

Product Description

BRASS COIL & STRIP





Description- Brass Coil & Strip :

Standard: GB/T 2059；EN 1652；ASTM B19；JIS H3300；GOST 495；ISO 13337

Grade: C26000（H70/H30）、C27000（H65/H35）、C28000（H60/H40 ）、C23000、CW505L (C26000)、CW506L (C27000)、CW507L (C28000)、H62、H65、H68、H70、H80、H90、Л62、Л68、Л70、Л90（Л=Латунь Brass）

Conventional standard size:

Thickness of 0.05~3.0mm, width of 5~1220mm, can accurately cut any narrow width, roll inner diameter of 300/500mm. Roll weight of 50~1000kg

Hardness grade (same as pure copper grading O/1/4H/1/2H/H/EH):

Soft state: jewelry, deep drawn crafts; 1/2H semi hard: valve, metal stamping; Full hardness: wear-resistant lining, gear blank

Corrosion resistance grade :

Ordinary brass (freshwater indoor), navy brass (seawater marine environment), lead brass HPb59-1 (easy cutting mechanical processing).

Surface process :

Bright rolling, acid pickling and passivation, antique drawing, nickel and chromium plating, rust proof oil sealing.

Application :

Electronic connectors: socket terminals, switch spring clips, RF shielding shell continuous stamping coil material.

Plumbing hardware: valve gaskets, pipe fittings, joint stamping substrates.

Decorative building materials: antique copper decorative coils, door and window hardware stamping strips.

Clocks and watches: Stamping materials for clock shells and precision instrument shells.

Product Description

♦ COPPER FOIL





Description- Copper Foil :

Standard: GB/T 5230-2020； ASTM B488； EN 1652； JIS H3350； GOST 1173 ； IPC-4562

Material: T2/C11000/M 1 high-purity electrolytic copper; OFHC oxygen free copper foil (high-end electronics)

Conventional standard size:

Thickness specification (micron level core model)

Electrolytic copper foil: 9 μ m, 12 μ m, 18 μ m, 25 μ m, 35 μ m, 50 μ m, 70 μ m, 100 μ m (width standard 1290mm)

Rolled copper foil: 0.01mm (10 μ m), 0.02, 0.03, 0.05, 0.08, 0.1, 0.15mm

Standard widths: 300mm, 500mm, 1000mm, 1290mm (PCB standard width)

Standard roll length 1000m/5000m/10000m; Roll weight 300~1500kg

Performance level:

Grade A standard electrolytic copper foil: PCB universal, tensile strength 180-220MPa.

Grade B high elongation electrolytic copper foil: lithium battery negative electrode, elongation rate ≥ 8%.

Grade C rolled annealed copper foil: flexible FPC circuit board, high bending and fatigue resistance.

Grade D high-temperature peel resistant copper foil: high-frequency copper-clad laminate, military electronics.

Surface process : Double sided bright electrolysis, roughening treatment (to improve resin adhesion), anti oxidation passivation, matte rolled surface.

Application :

PCB printed circuit board: rigid FR4 circuit board, copper-clad substrate (the world's largest demand for ED electrolytic copper foil).

New energy lithium battery: ultra-thin high elongation copper foil for negative electrode current collector.

FPC flexible circuit board: bending equipment, folding screen (special for RA rolled copper foil).

Electromagnetic shielding: shielding copper foil and conductive tape substrate for mobile phones, servers, and new energy equipment.

Thermal conduction and heat dissipation: ultra-thin thermal conductive copper film, uniform heat plate substrate.

Detailed specifications

1.Comparison Table of Mainstream Grade Material Purity

国标牌号 National standard grade	对应美标 Corresponding to American standard	铜纯度≥ Copper purity	核心特点 Core Features
T1	C10100	99.95%	超高纯、极低杂质、导电最优 Ultra high purity, extremely low impurities, optimal conductivity
T2	C11000	99.90%	工业通用主力、性能均衡稳定 Industrial universal main force, balanced and stable performance
TU2 oxygen free	C10200	99.95%	无氧高纯、焊接极佳、无气孔 Oxygen free high-purity, excellent welding, no porosity
T3	C11300	99.70%	高性价比、工程通用 High cost-effectiveness and engineering versatility

2.Complete mechanical performance parameters of copper plate (T2 national standard)

力学项目 Mechanics project	软态(M) Soft state	半硬(Y2) Semi hard	硬态(Y) Hard state	T特硬 Extremely hard
抗拉强度(MPa) Tensile strength	210 ~ 240	240 ~ 300	240 ~ 300	≥300
屈服强度(MPa) Yield strength	≤60	120 ~ 180	120 ~ 180	≥200
断后伸长率(%) Post fracture elongation	≥40	≥20	≥20	≥6
维氏硬度(HV) Vickers hardness	60 ~ 80	85 ~ 110	85 ~ 110	115 ~ 135
适用工艺 Applicable process	深度拉伸、折弯、止水带、复杂成型 Deep stretching, bending, waterstop, complex molding	通用冲压、导电件、常规钣金 Universal stamping, conductive parts, conventional sheet metal	薄片、耐磨垫片、固定结构件 Thin sheets, wear-resistant gaskets, fixed structural components	精密弹片、高强度耐磨元件 Precision shrapnel, high-strength wear-resistant components

Product Description

COPPER TUBE & PIPE

PURE COPPER TUBE





Description- Pure Copper Tube :

Standard: GB/T 1527-2020； EN 12735 、EN 1057 ； ASTM B88、ASTM B280； JIS H3300； GOST 617-2018； ISO 13348

Material: TP2、C12200、TU1、TU2、C10100、T2、C11000、CW004A、TP2、M1、M2

Conventional standard size: Outer diameter standard mm (metric): 3, 4, 5, 6, 8, 10, 12, 14, 15, 16, 18, 20, 22, 25, 28, 30, 32, 35, 40, 50, 60, 76, 89, 108, 133, 159, 219, 273

Wall thickness: 0.3, 0.4, 0.5, 0.6, 0.8, 1.0, 1.2, 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 8.0, 10mm

American standard British copper pipe models: 1/4 ", 3/8", 1/2 ", 5/8", 3/4 ", 7/8", 1 ", 1-1/4", 1-1/2 ", 2", 3 ", 4", 6“

Standard length of coil: 15m, 25m, 50m, 100m; Straight pipe fixed length 3m, 4m, 6m; Outer diameter 3~273mm, wall thickness 0.3~10mm; capillary outer diameter 0.8~6mm, wall thickness 0.1~0.5mm.

Segmented finished product models:

Air Conditioning Copper Tube, Water Supply Copper Tube, Heat Exchanger Copper Tube, Capillary Copper Tube, Medical Oxygen Copper Tube, Medical Oxygen Free Copper Tube

Processing status level :

Soft coil: air conditioning refrigerant coil, plumbing bend (can be bent at will).

1/2H semi-rigid straight pipe: water supply pipe, heat exchange straight pipe.

H Full Hard Straight Pipe: High pressure oil and gas pipelines, industrial high-pressure fluid transportation.

Pressure rating : PN10, PN16, PN25, PN40 high-pressure copper pipes (industrial fluids).

Surface process : Bright acid pickling, degreasing and cleaning (medical/air conditioning), passivation and rust prevention, external PE insulation sheath, polished mirror surface.

Application : HVAC: Split unit, central air conditioning refrigerant coil (TP2 soft coil global demand).

Water supply and drainage engineering: copper pipes for drinking water in buildings, water supply pipelines for hotels and hospitals (corrosion-resistant and antibacterial).

Heat exchange equipment: heat exchanger, condenser, evaporator copper tube, geothermal heat exchange tube.

Medical vacuum: Oxygen free TU2 copper tube oxygen delivery, vacuum equipment piping.

Industrial fluids: hydraulic oil pipes, corrosion-resistant high-pressure pipelines for oil and gas transportation.

Product Description

BRASS TUBE





Description- Brass Tube :

Standard: GB/T 1527； EN 12449； ASTM B135； JIS H3300； GOST 617； ISO 13348

Grade: H62/L62 general industrial pipeline;

H70/C26000 seawater resistant heat exchange tube;

HPb59-1 easy cutting mechanical machining pipe fittings

Product Model:

Outer diameter 4~200mm, wall thickness 0.4~10mm; Imperial 1/4 "~4";

International alloy models: H62, H65, H70, HPb59-1, C26000, C27000, L62, L68 (Russian standard brass pipes)

Subdivision models: Brass Instrument Tube, Brass Valve Tube, Seamless Brass Tube, Brass Capillary

Conventional standard size:

Outer diameter 4~200mm, wall thickness 0.4~10mm; straight pipe 3/6m, coil 25/50m; capillary tube outer diameter 1~8mm.

Processing status level : Hardness O/1/2H/H;

Pressure rating : Pressure classification PN10~PN25.

Surface process : Bright acid pickling, polishing, nickel plating, passivation and rust prevention.

Application :

Instrumentation: pressure gauges, flow meters, precision capillary tubes, sensor pipelines.

Water heating valves: valve body blanks, bathroom fittings, water meter housing pipes.

Ship heat exchange: H70 Navy brass tube seawater condenser pipeline.

Mechanical processing: Processing threaded joints and bushings for easy cutting lead brass pipes.

Product Description

COPPER ALLOY TUBE







Description- Copper Alloy Tube :

Standard: GB/T 1527；EN 12449；ASTM B111、B139；GOST 617；ISO 13348

Grade: Phosphorus green copper tube :QSn6.5-0.1

Beryllium copper tube :QBe2

White copper tube :B10/B30

Aluminum Bronze Tube :QAl9-4

Russian standard: БрОФ、МН10、БрА9-4

American standard :C51900, C71500, C95400

Conventional standard size:

Outer diameter 6-180mm, wall thickness 0.5-8mm; straight pipe standard of 6m, customizable coil

Subdivision: Marine White Copper Tube, Wear Resistant Aluminum Bronze Tube, Spring Phosphorus Bronze Tube

Surface process : Acid pickling for brightening, passivation, heat treatment for age hardening, polishing

Application :

Ocean engineering: B10/B30 white copper tube seawater desalination, ship condenser, island sea-water pipeline.

High pressure wear-resistant: aluminum green copper tube hydraulic high-pressure pipeline, en-gineering machinery wear-resistant oil pipe.

Precision elasticity: phosphor bronze corrugated tube, sensor elastic pipeline.

Chemical anti-corrosion: special alloy conveying pipelines for acid and alkali media.

Detailed specifications

1.TP2/T2 Copper Tube National Standard Mechanical Properties (Core Acceptance Indicators)

力学项目 Mechanics project	软态(M) Soft state	半硬(Y2) Semi hard	硬态(Y) Hard state
抗拉强度(MPa) Tensile strength	⩾215	240 ~ 300	⩾315
屈服强度(MPa) Yield strength	45 ~ 100	120 ~ 180	⩾200
断后伸长率(%) Post fracture elongation	⩾35	⩾20	⩾6
适用工艺 Applicable process	折弯盘管、制冷走管、预埋管路 Bending coils, cooling pipes, and pre embedded pipelines	通用给排水、常规设备管路 General water supply and drainage, conventional equipment pipelines	高压管路、固定直管、压力管道 High pressure pipeline, fixed straight pipe, pressure pipeline

2.Reference for mechanical properties of H65 brass tube

状态 State	抗拉强度(MPa) Tensile strength	伸长率(%) Elongation rate	特点用途 Characteristics and Applications
软态 Soft state	⩾330	⩾40	易加工折弯、精密管件 Easy to process and bend, precision pipe fittings
轻拉 Pull gently	370 ~ 410	⩾22	结构件、车削配件、耐磨管件 Structural components, turning accessories, wear-resistant pipe fittings
硬态 Hard state	⩾500	⩾10	高强度耐磨衬套、机械管件 High strength wear-resistant lining, mechanical pipe fittings

3.Detailed explanation of process and performance

♦ Seamless integrated molding: Full process extrusion and drawing without welds, eliminating hidden dangers of weld cracking and leakage, and ensuring long-term stability and safety under high pressure and negative pressure conditions.

♦ Excellent cold and hot processing performance: Soft state can be freely coiled, bent, expanded, and flanged, without wrinkling or cracking during processing, suitable for complex installation processes.

♦ Anti aging and anti scaling: Smooth inner wall, low fluid resistance, long-term water and oil transportation without scaling or blockage, pipeline life can reach more than 50 years.

Product Description

COPPER BAR & ROD

♦ COPPER ROUND BAR







Description- Copper Round Bar :

Standard: GB/T 4423-2020；EN 12164；ASTM B187；JIS H3250；GOST 1535；ISO 13349

Grade: T2/C11000、TP2/C12200、M1

Conventional standard size: Diameter specification mm：3、4、5、6、8、10、12、14、16、18、20、22、25、30、35、40、50、60、80、100、120、150

Diameter 3-150mm, tolerance ± 0.02~0.15mm; standard dimensions 3m, 4m, 6m; Customizable forging with a super large diameter of 200mm

Hardness processing grade: Soft state, M semi hard state, Y hard state; Conductivity level ≥ 98% IACS (standard conductive copper rod), ≥ 100% IACS high-purity oxygen free copper.

Surface : Bright drawing, acid pickling and passivation, smooth turning surface, rust proof oil sealing.

Application : Electrical conductivity: grounding rod, conductive bolt blank, transformer terminal post, raw materials for new energy busbar.

Mechanical processing: heat dissipation bolts, conductive fasteners, mold conductive inserts.

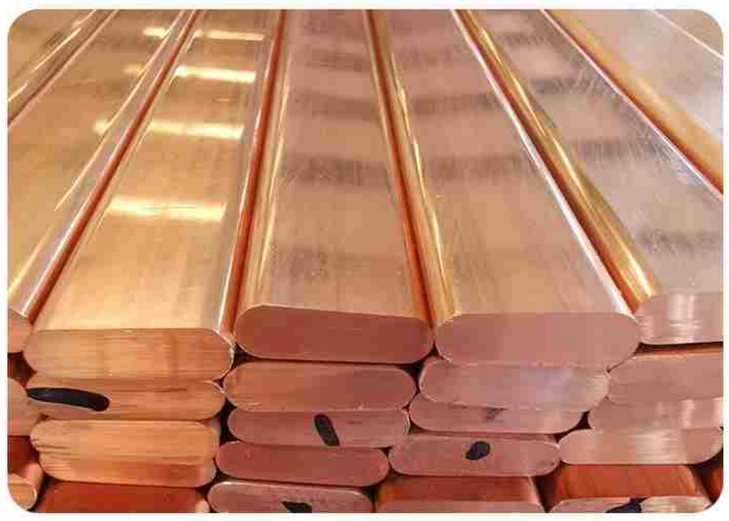
Vacuum electronics: oxygen free copper rod vacuum chamber, semiconductor carrier processing blank.

Detailed specifications

牌号 Grade	状态 State	直径 mm Diameter	抗拉强度 Rm ≥ MPa Tensile strength	断后伸长率 A ≥ % Post fracture elongation	备注 Remarks
T2	M (soft)	3 ~ 80	200	40	塑性好，易折弯、导电件 Good plasticity, easy to bend, conductive parts
T2	Y (hard)	3 ~ 40	275	10	冷拉硬化，强度提升 Cold tensile hardening enhances strength
T2	Y (hard)	40 ~ 60	245	12	——
T2	Y (hard)	60 ~ 80	210	16	直径越大，冷作强化越低 The larger the diameter, the lower the cold work strengthening

Product Description

♦ COPPER BUSBAR







Description- Copper Busbar :

Standard: GB/T 5585-2017；EN 13601；ASTM B187；JIS H3250；GOST 434；IEC 60865

Grade: T2 Busbar、C11000 Copper Busbar、M1 Шина

Conventional standard size: Sectional specifications (thickness x width mm)

Thickness: 3, 4, 5, 6, 8, 10, 12, 15, 20, 25, 30, 40, 50mm

Width: 20, 30, 40, 50, 60, 80, 100, 120, 150, 200, 300mm

Standard sizing: 3m, 4m, 6m;

Thickness of 3-50mm, width of 20-300mm, length of 3/4/6m; customizable punching, bending, tin plating processing of finished copper bars

Surface anti-corrosion grade: Bare copper color, tin plating, silver plating, nickel plating;

Strength grade : Soft state O (bent busbar), hard state Y (fixed distribution busbar)

Surface process : Bright rolling, acid pickling and passivation, overall tin/silver plating, chamfering and deburring, insulation coating wrapping.

Application : High and low voltage distribution cabinets: main busbar of switchgear, branch conductive copper bars.

New energy storage: Copper busbar for energy storage battery cabinets, conductive busbar for photovoltaic inverters.

Substation power plant: High voltage transformer connected to busbar, generator set conductive busbar.

Rail Transit: Subway, High Speed Rail Traction Transformer Conductive Copper Bar.

Detailed specifications

牌号 Grade	状态 State	布氏硬度 HB Brinell hardness	抗拉强度 Rm ≥ MPa Tensile strength	断后伸长率 A ≥ % Post fracture elongation	备注 Remarks
TMR	R (soft)	—	206	40	需要折弯、软连接，可塑性好 Requires bending, soft connection, good plasticity
TMY	Y (hard)	≥65	—	10	固定安装，不折弯，刚性好 Fixed installation, no bending, good rigidity

Product Description

♦ BRASS BAR





Description- Brass Bar :

Standard: GB/T 4423；EN 12164；ASTM B16；JIS H3250；GOST 1535；ISO 13349

Grade: H62、HPb59-1、H65、H70、C27000、C36000、Л62、ЛС59-1

Conventional standard size: Round rod diameter 3-150mm; hexagonal rod opposite edge S6-S80mm; Square rod 6-100mm

Round rod with a diameter of 3~150mm, hexagonal rod with a diameter of S6~S80mm, square rod with a diameter of 6~100mm, fixed length of 3/6m; tolerance of ± 0.03~0.2mm.

Processing status level: Hardness M semi hard, Y hard state; Special for cutting grade 1 high-speed automatic lathe.

Surface process : Bright drawing, acid pickling and passivation, turning precision machining, rust proof oil.

Application :

Hardware automatic lathe: plumbing valves, locks, bathroom accessories, fastener blanks.

Instrumentation: Processing materials for precision gears, bushings, and sensor housings.

Plumbing fittings: brass fittings, faucet valve cores, valve body rods.

Detailed specifications

1.H62 (ordinary brass CuZn38)

牌号 Grade	状态 State	直径 mm Diameter	抗拉强度 Rm ≥ MPa Tensile strength	断后伸长率 A ≥ % Post fracture elongation	备注 Remarks
H62	M (soft)	3 ~ 80	310	30	塑性好，可折弯冲压 Good plasticity, can be bent and stamped
H62	Y2 (semi hard)	3 ~ 40	370	15	通用五金、销钉 Universal hardware, pins
H62	Y (hard)	3 ~ 40	410	10	高强度，不易折弯 High strength, not easily bent
H62	R (hot extrusion)	10 ~ 160	295	30	大直径挤压棒 Large diameter extrusion rod

Detailed specifications

2.HPb59-1 (lead brass, easy to cut, preferred for CNC automatic lathes)

牌号 Grade	状态 State	直径 mm Diameter	抗拉强度 Rm ≥ MPa Tensile strength	断后伸长率 A ≥ % Post fracture elongation	备注 Remarks
HPb59-1	Y2 (semi hard)	3 ~ 20	420	12	走心机、螺栓螺母 Mind machine, bolts and nuts
HPb59-1	Y (hard)	3 ~ 20	480	8	切削性能最优 Optimal cutting performance
HPb59-1	R (hot extrusion)	10 ~ 160	340	18	大规格挤压料 Large scale extruded material

2.H65 (CuZn35, better plasticity than H62)

牌号 Grade	状态 State	直径 mm Diameter	抗拉强度 Rm ≥ MPa Tensile strength	断后伸长率 A ≥ % Post fracture elongation	备注 Remarks
H65	M (soft)	3 ~ 40	295	40	深冲、复杂折弯件 Deep drawn and complex bent parts
H65	Y2 (semi hard)	3 ~ 40	370	13	弹性五金件 Elastic hardware components
H65	Y (hard)	3 ~ 40	390	8	——

3.H59 (low-cost brass)

牌号 Grade	状态 State	直径 mm Diameter	抗拉强度 Rm ≥ MPa Tensile strength	断后伸长率 A ≥ % Post fracture elongation	备注 Remarks
H59	M (soft)	3 ~ 40	290	25	——
H59	Y2 (semi hard)	3 ~ 40	360	12	性价比零件 Cost effective parts
H59	Y (hard)	3 ~ 40	440	5	——

COPPER WIRE

Product Description

♦ COPPER WIRE





Description- Copper Wire :

Standard: GB/T 3952-2021； EN 13602； ASTM B3； JIS H3300； GOST 16130； IEC 60228

Grade: T2、C11000、M1、TU1、TP2

Conventional standard size:

Wire diameter mm: 0.03, 0.05, 0.08, 0.1, 0.15, 0.2, 0.3, 0.4, 0.5, 0.6, 0.8, 1.0, 1.2, 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 8.0, 10.0

American Wire Gauge (AWG): AWG40# to AWG8# (corresponding to 0.03~3.26mm)

Microfilament 0.03~0.3mm (electronic twisted wire);

Standard 0.4~10mm; standard reel weights 5kg, 25kg, 50kg, 100kg, 1000kg for large coils; reel inner diameter 200~600mm

Conductivity level: ≥ 98% IACS standard conductivity, ≥ 101% IACS high-purity oxygen free.

Hardness grade : Soft state (braided, stranded wire), Hard state (overhead wire, conductive fastener).

Surface : Bright drawing, acid pickling passivation, tin plating, silver plating, rust prevention passivation.

Application :

Wire and cable: power cable, control cable, bare copper wire conductor.

Braided conductive tape: copper braided flexible connection, grounding braided tape, shielding mesh material.

Electronic components: jumper wires, terminal leads, bare copper wires for inductor coils.

Industrial bundling: grounding engineering bundling, anti-corrosion equipment fixing wire.

Product Description

ENAMELED COPPER WIRE





Description- Enameled Copper Wire :

Standard: GB/T 6109-2017； IEC 60317； ASTM D1676； JIS C3202； GOST 7262

Grade: T2、C11000、M1、 Level 130 (I/AIW), Level 155 (2/UEW), Level 180 (3/PEI), Level 200 (4/AI/PEI), Level 220 (5/PI)

Conventional standard size: Wire diameter specification: 0.02~5.0mm; AWG44 #~AWG10#

Micro wire 0.02~0.1mm (precision inductance); Universal 0.1-2.5mm; high-power motor 2.5-5.0mm; standard disc weight 0.5kg, 5kg, 25kg, 50kg industrial disc.

Temperature resistance level: 130 ℃, 155 ℃, 180 ℃, 200 ℃, 220 ℃;

Class 130 (I/AIW): Polyurethane enameled wire, universal motor

155 level (2/UEW): Polyesterimide, transformer, small motor

180 level (3/PEI): Composite coating for high temperature resistance, new energy motor

Grade 200 (4/AI/PEI): High temperature and refrigerant resistance, air conditioning compressor, new energy vehicle drive motor

Class 220 (5/PI): Polyimide ultra-high temperature, military aviation, special variable frequency motor

Paint film thickness grade : Thin paint film level 0, standard paint film level 1, thickened paint film level 2 (with increasing breakdown voltage resistance);

Self adhesive grade : Ordinary non self-adhesive, Self Bonding self-adhesive enameled wire (special for skeleton free coils).

Surface process : Oxygen free bright copper substrate, multi-layer insulation paint continuous baking curing, self-adhesive coating secondary coating, lubricating paint film (high-speed winding).

Application :

Motor industry: household appliance motors, industrial variable frequency motors, new energy vehicle drive motors, wind turbine generator windings.

Transformer inductance: power transformer, high-frequency inductance, charger coil, transformer winding.

Refrigeration equipment: air conditioning, refrigerator compressor, refrigerant resistant, high-temperature resistant enameled wire.

Military aviation: 220 grade ultra-high temperature enameled wire used for aviation special motors and aerospace sensor coils.

Electronic consumption: headphones, cameras, small motors, micro enameled micro wires.

Detailed specifications

1.T2 Electrical Copper Wire Mechanics and Electrical Properties

牌号 Grade	抗拉强度 Rm ≥ MPa Tensile strength	断后伸长率 A ≥ % Post fracture elongation	20℃电阻率(Ω·mm²/m) 20 ℃ resistivity	备注 Remarks
TR soft state	200 ~ 240	≥25	≤0.017241	绞线、柔性电缆、编织屏蔽 Twisted wire, flexible cable, braided shielding
TY2 semi hard state	240 ~ 300	≥15	≤0.017500	设备配线、常规导电连接 Equipment wiring, conventional conductive connections
TY hard state	≥310	≥5	≤0.017770	架空导线、固定刚性布线 Overhead wires, fixed rigid

2.Comparison of Material Performance of Mainstream Brands

牌号 Grade	铜纯度 Copper purity	核心特性 Core Features	适用领域 Applicable fields
TU2 oxygen free copper wire	≥99.95%	超低氧、焊接极佳、无氢脆 Ultra low oxygen, excellent welding, no hydrogen embrittlement	高端电子、真空、精密线束 High end electronic, vacuum, precision wire harness
T2 copper wire	≥99.90%	导电优异、性能均衡稳定 Excellent conductivity, balanced and stable performance	通用电工、线缆、编织、焊接 General Electrician, Cable, Braiding, Welding
T3 copper wire	≥99.70%	高性价比、稳定耐用 High cost-effectiveness, stable and durable	绑扎、普通防护、非精密导电 Binding, ordinary protection, non precision conductivity
H65 brass wire	Copper-zinc alloy	硬度高、耐磨、回弹好 High hardness, wear resistance, and good rebound	弹簧丝、卡簧、编织网、五金线材 Spring wire, card spring, woven mesh, hardware wire

3.Comprehensive Performance Explanation

♦ Stable electrical performance: uniform resistance, strong current carrying capacity, low temperature rise, no drift or heating aging during long-term power on, suitable for electrical systems that operate continuously for a long time.

♦ Excellent welding processability: Both bare copper wire and tin plated copper wire can be easily soldered or melted, with firm solder joints, continuous conductivity, and no hidden dangers of virtual soldering or desoldering.

♦ Anti fatigue and bending resistance: Soft copper wire can be bent tens of thousands of times continuously, suitable for mobile cables, flexible connections, and repeated opening and closing equipment.

Packing and loading







Warehouse >>>> Packaging >>>> Loading

Our Advantages

verification проверка verificación verification проверка verificación verification

ICR

VERIFICATION OF CONFORMITY

S/N: 022079

No.: **ICR/VC/HM2603311**

Name and address of Applicant	Shandong Xin wugang Steel Co., Ltd. Room 602, No. 9, South Nenjiang Road, Mount Taishan Road East, Jiangguantun Street, Liaocheng Economic and Technological Development Zone, Shandong Province, China
Name and address of manufacturer:	Shandong Xin wugang Steel Co., Ltd. Room 602, No. 9, South Nenjiang Road, Mount Taishan Road East, Jiangguantun Street, Liaocheng Economic and Technological Development Zone, Shandong Province, China
Product name:	Carbon Steel coil, Steel plate, Steel pipe, steel profile, steel wire, Steelbar, stainless steel pipe, Stainless steel coil /plate/profile, Steel Rail, Steel Ball
Product types:	Steel Plate: 0.14mm---500mm, Steel Coil: 0.14mm---25mm, Steel Pipe: 3mm-1020mm*0.3mm----200mm, Steel Wire: 0.15mm--16mm, Round bar: 5mm--600mm, H Beam: 91mm*100mm----1138mm*410mm, I Beam: 76mm*59mm----778mm*269mm, Angle steel: 19mm*19mm---305mm*305mm, Channel: 25*12mm-----457mm*107mm, Steel Ball: 1mm--180mm, Steel Rail: 9---50kg,QU70-120, P65 R65 54E1...
Product trademark:	n/a

Verification was carried within following scope:

Information on the Declaration of Conformity:

Result:	Legislation:	Standard:
✓	CPR [(EU) 305/2011]	EN 10210-1:2006 EN 10210-2:2019 EN 10219-1:2006 EN 10219-2:2019 EN 10025-1:2004 EN 10025-2:2019

The assessment process has been carried out in accordance with individual rules and conditions agreed with the applicant. Evaluation has been carried out in accordance with:

Test report:	MTZ20260318SCPR
Tests conducted by:	Shandong Xin wugang Steel Co., LTD
Issue date:	25.03.2026
Expiration date:	24.03.2031

Remarks:
- VoC was issued on voluntary basis and does not imply meeting all essential requirements listed in Declaration of Conformity.
- For introducing this product on European market may be needed EC/EU-type examination conducted by appropriate Notified Body.

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CEO, ICR Co., Ltd.

Edition: 5.1.1.8 of 06.03.2024

ZTC

中泰认证

QUALITY MANAGEMENT SYSTEM CERTIFICATION

Registration NO: 29022Q12696-10R0S

SHANDONG XIN WUGANG STEEL CO., LTD

Unified social credit code:91371500MA94JRBY2K

Registered Address:Room 602, No. 9, South Nenjiang Road, Mount Taishan Road, Liaocheng Economic and Technological Development Zone, Shandong Province

Office Address:Room 602, No. 9, South Nenjiang Road, Mount Taishan Road, Liaocheng Economic and Technological Development Zone, Shandong Province

Business Address:Room 602, No. 9, South Nenjiang Road, Mount Taishan Road, Liaocheng Economic and Technological Development Zone, Shandong Province

Established Quality Management System Accord With

GB/T 19001-2016 idt ISO9001:2015 standard

Through the certification scope is as follows

Sales of steel (including export)

The release date for the first time: 21-10-2022

The issuance date: 21-10-2022

Will be valid until: 20-10-2025

Approval of the first	Approval of the second	Approval of the third
surveillance audit	surveillance audit	surveillance audit

(This certificate within the period of validity of registration annually must accept supervision and audit in order to be valid and post supervision qualified label.)

Issuer:

ZhongTai Union Certification Co., LTD.
Tel: +86 028-62521000 www.ztccc.cn

0036650

统一社会信用代码 91371500MA94JRBY2K

营业执照

名 称 山东鑫武钢铁有限公司
类 型 有限责任公司(自然人独资)
法定代表人 邹庆友
经营范围 一般项目：金属材料销售；金属材料制造；金属制品销售；金属结构销售；再生资源销售；新兴能源技术研发；非金属矿及制品销售；高性能有色金属及合金材料销售；化工产品销售（不含许可类化工产品）；机械设备销售；金属制品研发；五金产品零售；货物进出口；（除依法须经批准的项目外，凭营业执照依法自主开展经营活动）

注册资本 壹仟万元整
成立日期 2021年07月27日
住 所 山东省聊城经济技术开发区洛宫屯街道泰山路东坡江路南9号普园东华办公楼602室

登记机关 聊城市经济技术开发区市场监督管理局
2026 年 06月 26 日

国家市场监督管理总局监制

中国制造网 认证供应商

AUDITED SUPPLIER

Presented To
Shandong Xin Wugang Steel Co.,LTD
山东鑫武钢铁有限公司

In Recognition of Your Site Existence & Business Operations
Audited by SGS-CSTC on 2022-09-26
Audit Report Serial No.: GP-A2022071105

Made-in-China.com 中国制造网 SGS

CERTIFICATE

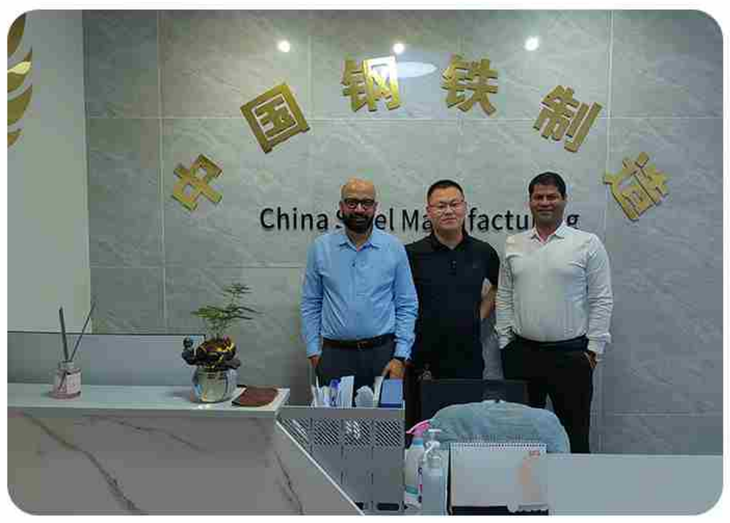






PRODUCTION EQUIPMENT

Our Advantages



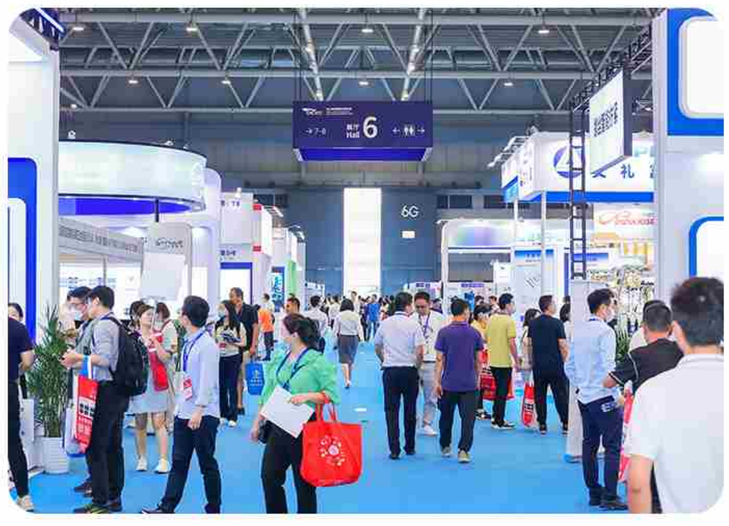




CUSTOMER VISIT







EXHIBITION

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