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SHANGHAI METAL CORPORATION

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Shanghai Metal Corporation

www.shanghaimetal.com

Shanghai Metal Corporation is an integrated manufacturer, exporter and supplier of value added Metal Products, Building systems, Shipping containers, and Machinery

OVERVIEW

MISSION STATEMENT

To maintain Long Lasting Relationships with our clients, and always dedicate our efforts to create Quality Products and Reliable Service, while building Global Value through our belief in Environmental Stewardship and Sustainability

To lead the market in both material manufacturing and process innovation

PURPOSE

CORE VALUES

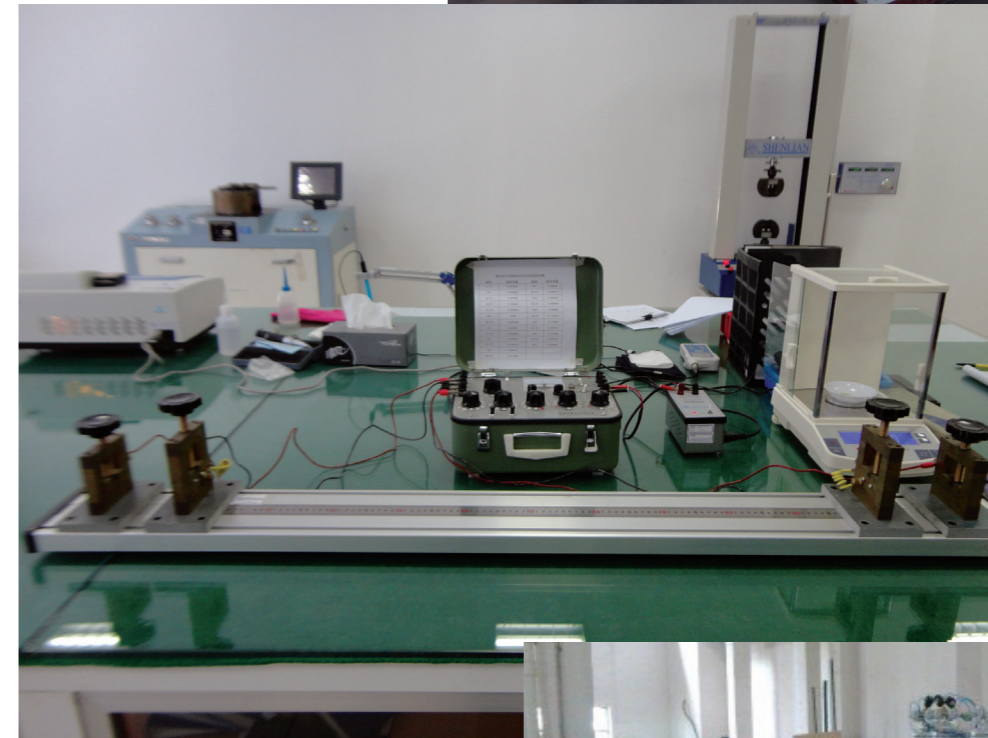
Fair and Transparent Management – Provide clients with only the highest quality products – Continuous Innovation – Environmental Stewardship and Sustainability

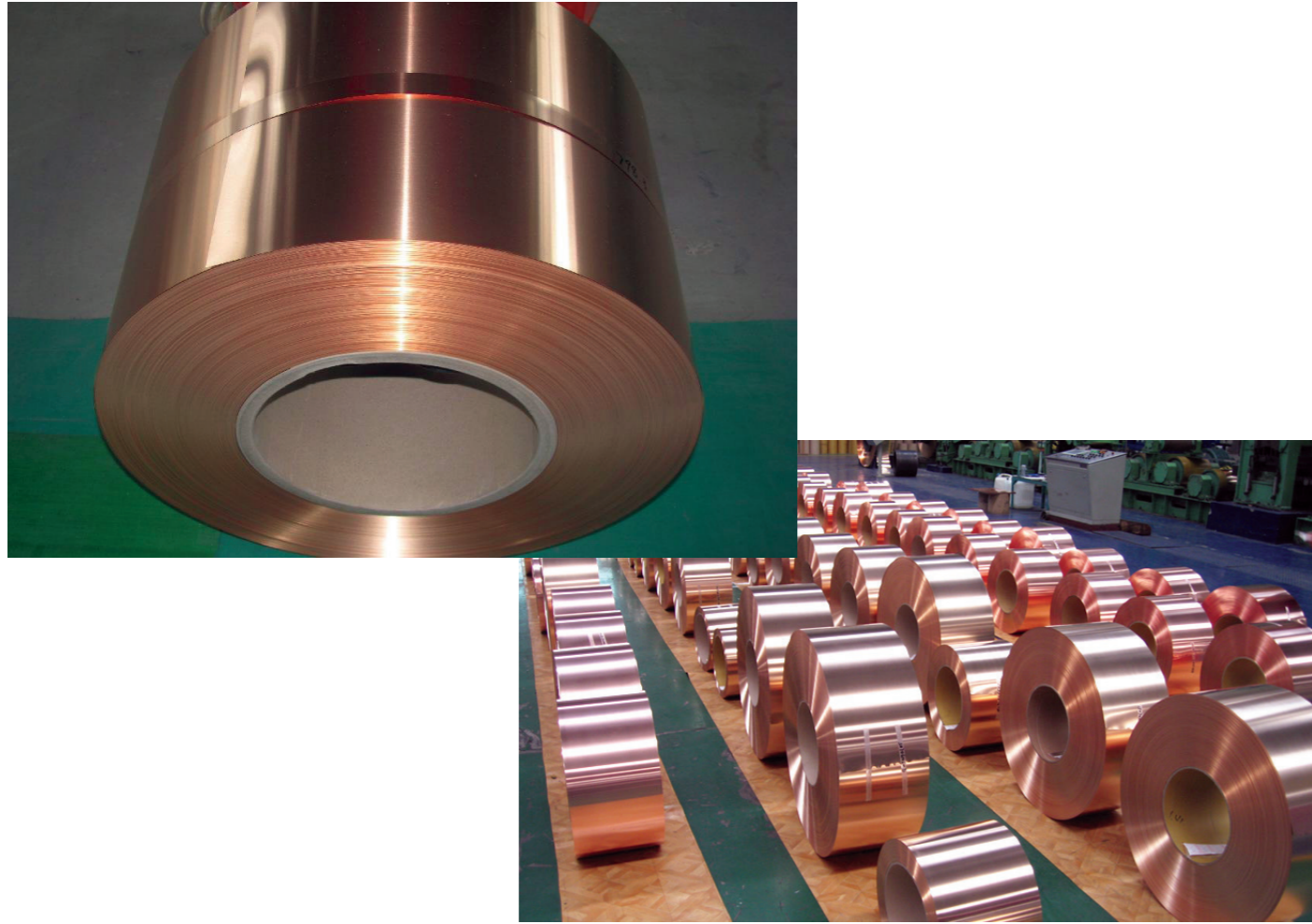
To be world class through

VISION

GOALS

Maintain customer relationships through our belief in a customer driven culture – Lead the Market through Constant Innovation of our Operation Methods – To provide clients with only the Highest Quality Products through using the Latest developments in Technology and Processes





SPECIFICATIONS

- Grade: C11000,C10200
- Copper: CU min.99.90%
- Thickness: 0.018mm-1.2mm
- Width: max.400mm
- Coil weight: 6.5kg/mm
- Chemical Composition: Cu>99.90% p:0.015%-0.040%
- Temper: O, 1/4H, 1/2H, H O : HV100
- Electric 20°C Conductivity: C11000 >97%, C10200>80%

Chinese Grade	Abroad Similar Brand				
	International (ISO)	USA (ASTM)	JAPAN (JIS)	UK (BS)	GERMANY (DIN)
T2	Cu-ETP	C11000	C1100	C101	R-Cu57
TP2	Cu-DHP	C10200	C1020	C106	SI-CU

Grade	Chinese State	Specification	Tensile Strength	Elongation	Vickers Hardness
T2	M	Thickness: 0.018-1.2mm Width: (Max) 400mm Coil Weight: 6.5kg/mm	>205	>30	-
	Y4		215-275	>25	55-100
TP2	Y2		245-345	>8	75-120



SPECIFICATIONS

- Grade: c11000,C10200 with high conductivity
- Copper: Cu min.99.90%
- Thickness: 0.018mm-1.2mm
- Width: 20mm-100mm
- Coil weight: 6.5kg/mm
- Chemical Composition: Cu >99.90% p:0.015%-0.040%
- Temper: O, 1/4H, 1/2H, H O : HV100

Chinese Grade	Abroad Similar Brand				
	International (ISO)	USA (ASTM)	JAPAN (JIS)	UK (BS)	GERMANY (DIN)
T2	Cu-ETP	C11000	C1100	C101	R-Cu57
TP2	Cu-DHP	C10200	C1020	C106	SI-CU

Grade	Chinese State	Specification	Tensile Strength	Elongation	Vickers Hardness
T2	M	Thickness: 0.018-1.2mm Width: (Max) 400mm Coil Weight: 6.5kg/mm	>205	>30	-
	Y4		215-275	>25	55-100
TP2	Y2		245-345	>8	75-120

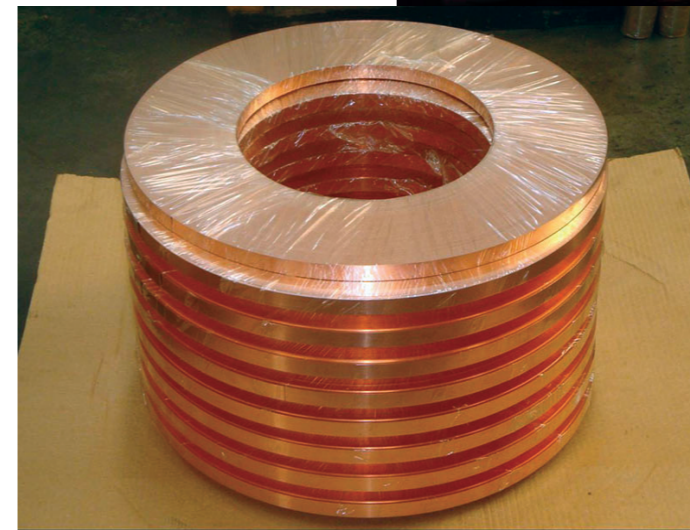
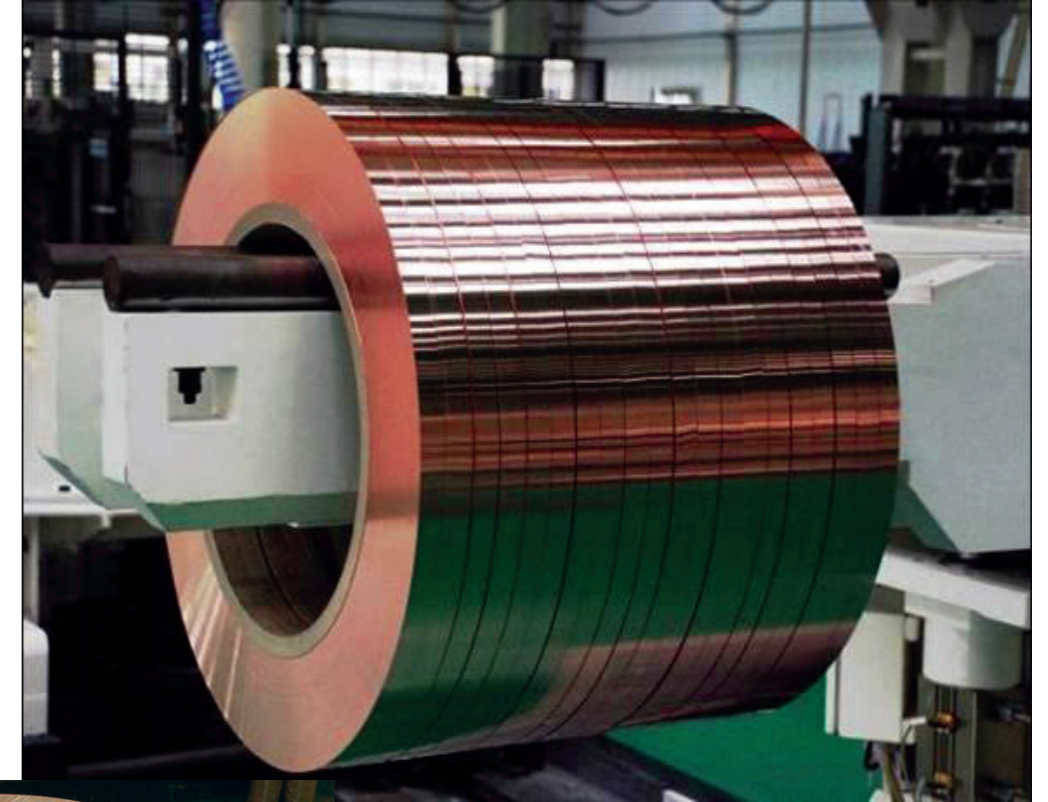


SPECIFICATIONS

- Grade: c11000,C12200
- Copper: cu min 99.90%
- Thickness: 0.018mm-1.2mm
- Width: max.400mm
- Coil weight: 6.5kg/mm
- Slitting Capability: 0.0007-0.080mm
- Sheeting Capability: 0.007-0.080mm
- Chemical Composition: Cu >99.90% p:0.015%-0.040%
- Temper: O, 1/4H, 1/2H, H O : HV100
- Electric 20°C Conductivity: C11000 >97% ,C12200 >80%

Quality Items	Area Weight (g/m ²)	Tensile Strength (kg/mm ²)	Elongation (%)	Leakage Point (points/m ²)	Quality of electrical resistivity (Ω·g/m ²)	Width (mm)
0.018mm	585±25	≥25.0	≥5.0	No	≤0.162	1381.0±1.0
0.105mm	915±45					
0.140mm	1220±60					
0.175mm	1525±75					
0.210mm	1830±90					

Sheeting Capability (mm)	Slitting Capability (mm)	Width	Core Size	Tissue Interleaved
-	0.0007-0.014	1/2" - 36"	5/16", 3", 6" or 12"	-
-	0.015-0.080	1/4" - 24" or 36"	6", 12" or 16"	-
0.018-0.005	-	2" - 48"	-	Tissue Interleaved
0.018-0.080	-	2" - 180"	-	Non-Tissue Interleaved

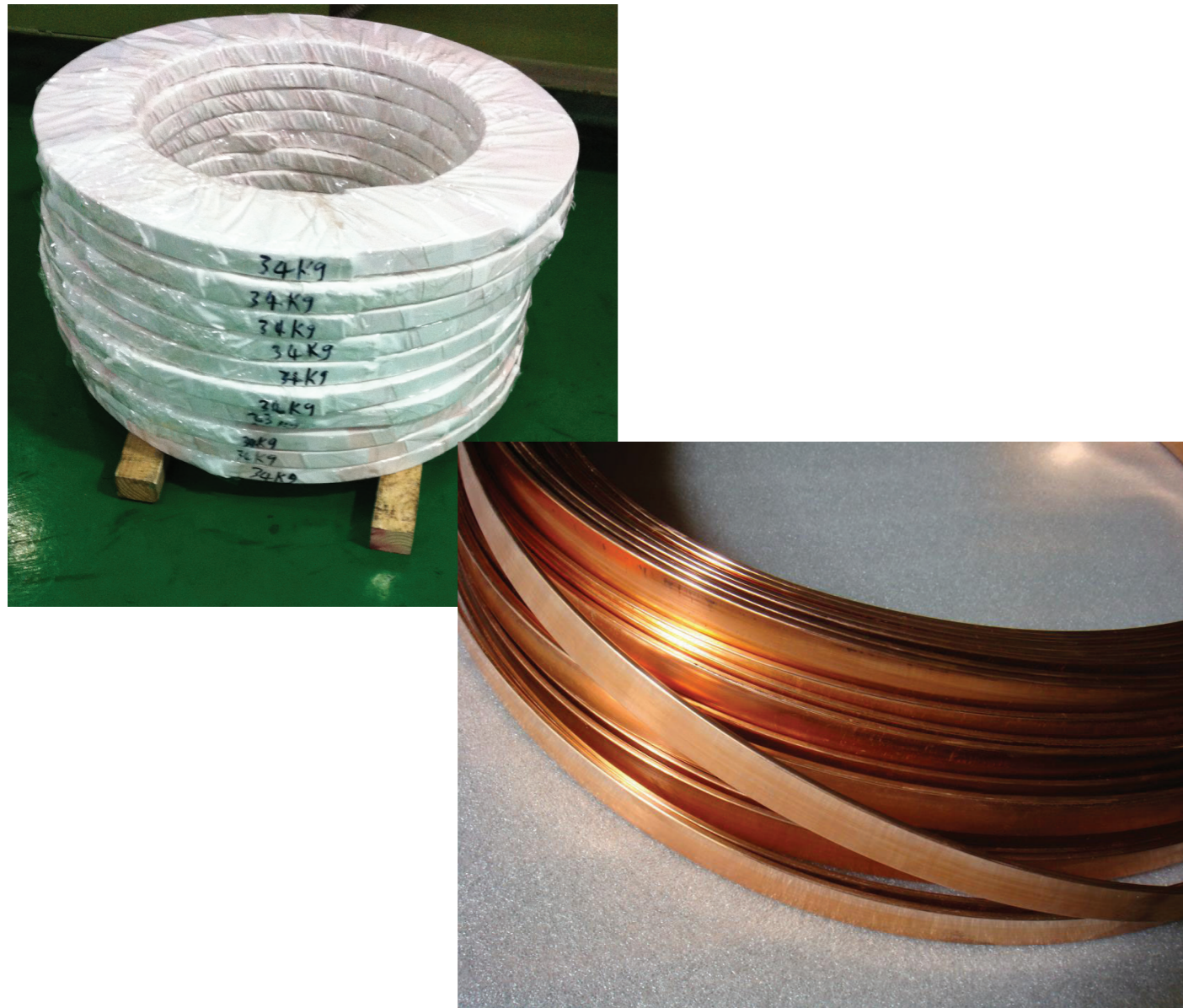


SPECIFICATIONS

- Thickness: 0.15mm - 3.0mm or custom
- Width: 610mm max. Coil weight: 3 ton Max
- Grade: C1100 / C1020 / C1220
- Chemical Composition:C1100: Cu >99.90% C1020: Cu >99.96% C1220: Cu>99.97%; P 0.015-0.04%
- Oxygen content:C1100: O < 500PPM C1020: O < 50PPM
- Temper: O, 1/4H, 1/2H, H O: HV<70; 1/4H:HV 65-85; 1/2H:HV 80-100; H:HV >100
- Electric 20°C Conductivity:C1100/C1020 >97% ;C1220 >80%

Type	Grade	Chemical Composition		Features	Applications
		Cu	P		
OFCU	C1020	>99.96	-	Good electricity and heat conduction; good elongation; being extruded and processed well; good corrosion-resistance and climate hardness	Electrical equipment; terminals; chemical industry; architectural industry; ornamental Industry; gaskets; trays; gas fired boiler; handicraft articles; building materials
TCU	C1100	>99.90	-		
RCU	C1201	>99.90	0.004-0.015		
DCU	C1220	>99.90	0.05-0.040		

COPPER EARTH STRIP

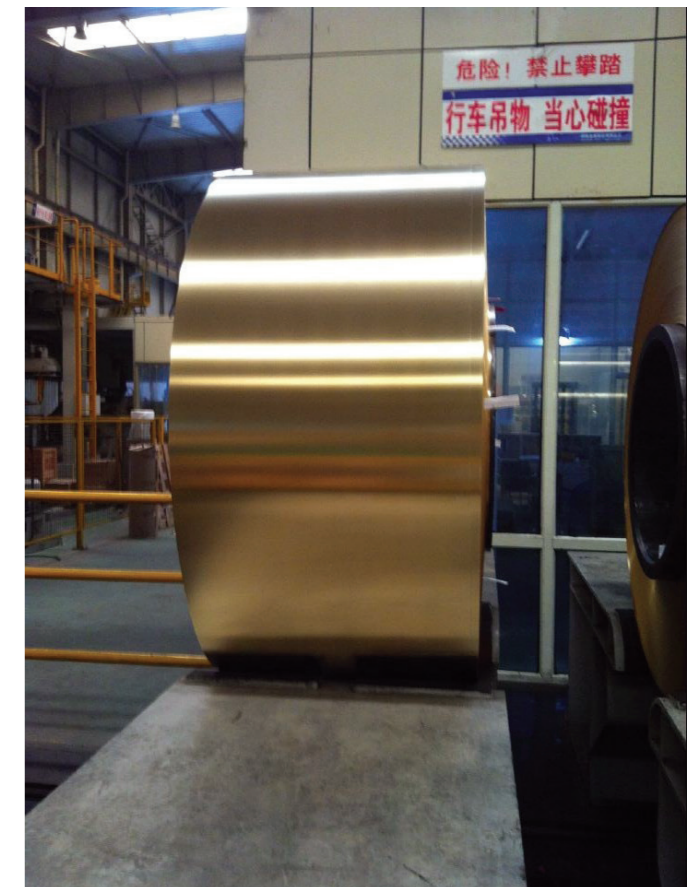


SPECIFICATIONS

- Thickness: 0.15mm - 3.0mm
- Width: 610mm max. Coil weight: 3 ton Max
- Normal Sizes: (customize according to your needs)
- Grade: C1100 / C1020 / C1220
- Chemical Composition: C1100: Cu >99.90% C1020: Cu >99.96% C1220: Cu >99.97%; P 0.015-0.04%
- Oxygen content: C1100: O < 500PPM C1020: O < 50PPM
- Temper: O, 1/4H, 1/2H, H O: HV <70; 1/4H:HV 65-85; 1/2H:HV 80-100; H:HV >100
- Electric 20°C Conductivity: C1100/C1020 >97% ;C1220 >80%

Type	Grade	Chemical Composition		Features	Applications
		Cu	P		
OFCU	C1020	>99.96	-	Good electricity and heat conduction; good elongation; being extruded and processed well; good corrosion-resistance and climate hardness	Electrical equipment; terminals; chemical industry; architectural industry; ornamental Industry; gaskets; trays; gas fired boiler; handicraft articles; building materials
TCU	C1100	>99.90	-		
RCU	C1201	>99.90	0.004-0.015		
DCU	C1220	>99.90	0.05-0.040		

BRASS STRIP

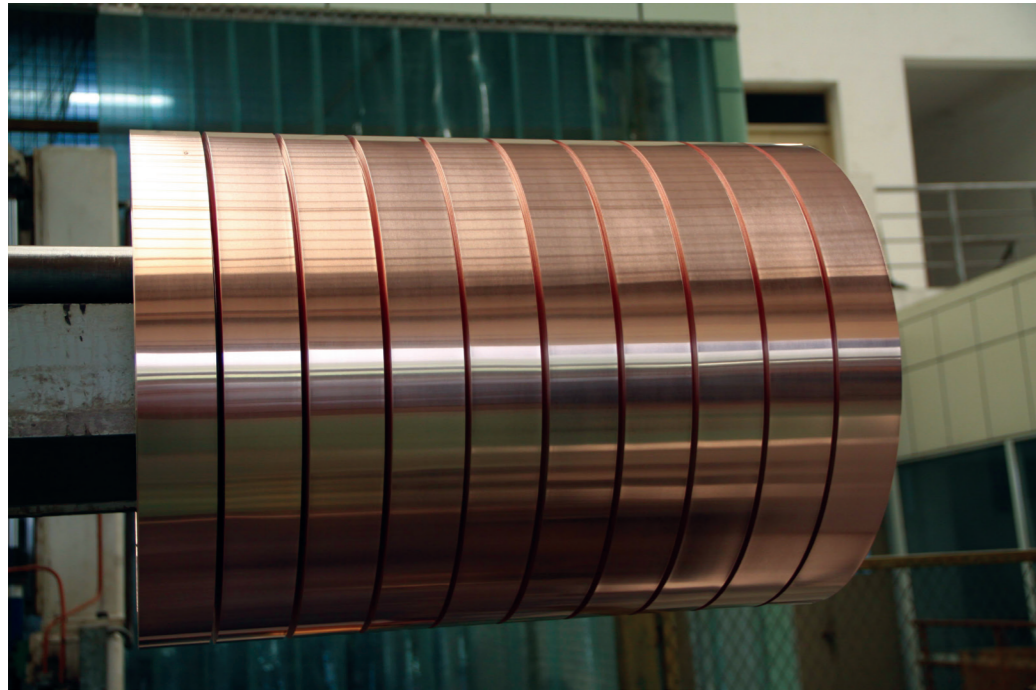


SPECIFICATIONS

- Grade: C2200, C2300, C2600, C2680, C2801
- Chemical Composition:
 - a) C2600: Cu >68.5-71.5% Fe <0.05% Pb <0.05% Zn remainder
 - b) C2680: Cu >64.0-68.0% Fe <0.05% Pb <0.05% Zn remainder
 - c) C2801: Cu >59.0-62.0% Fe <0.10% Pb <0.01% Zn remainder
- Temper: O, 1/4H, 1/2H, 3/4H, H, EH, SH
- Thickness: 0.15-5.0mm
- Width: 8mm-610mm 6. Standard: JIS, ASTM

Please see Appendix A for the mechanical parameters

Grade	Chemical Composition			
	Cu	Fe	Pb	Zn
C2200	89.0-91.0	<0.05	<0.05	Remainder
C2300	84.0-86.0	<0.05	<0.05	Remainder
C2600	68.5-71.5	<0.05	<0.05	Remainder
C2680	64.0-68.0	<0.05	<0.05	Remainder
C2801	59.0-62.0	<0.07	<0.10	Remainder



SPECIFICATIONS

- Grade: C1100 / C1020 / C1220
- Chemical Composition: C1100: Cu >99.90% C1020: Cu >99.96% C1220: Cu >99.97%; P 0.015 - 0.04%
- Oxygen content: C1100: O < 500PPM C1020: O < 50PPM
- Temper: O, 1/4H, 1/2H, H O: HV<70; 1/4H:HV 65-85; 1/2H:HV 80-100; H:HV >100
- Electric 20°C Conductivity: C1100/C1020 >97%; C1220 >80%

Available Thickness and Width Ranges							
Thickness Range				Width Range			
inch		mm		inch		mm	
min.	max.	min.	max.	min.	max.	min.	max.
0.0013	0.0040	0.0350	0.1000	0.5	13	12.5	325
0.0040	0.0200	0.1000	0.5000	0.5	24	12.5	610
0.0200	0.0320	0.5000	0.8000	0.5	24	12.5	610
0.0320	0.0700	0.8000	1.8000	0.5	24	12.5	610
0.0700	0.1000	1.8000	2.5000	1	24	25	610



All of SMC's Copper Piping and Tubes are manufactured from Deoxidized High Phosphorus (DHP) complying with UNS C11000 and C12200.

SPECIFICATIONS

- Out Diameter: 6.35mm - 219mm
- Width: 0.4mm-10mm
- Grade: C11000,C12200 ,C2680, C27200, C27000 etc.
- Chemical Composition: Cu >99.90% P:0.015%-0.040%
- Temper: O, 1/4H, 1/2H, HO : HV<70; 1/4H : HV 65-85; 1/2H :HV 80-100; H:HV>100
- Electric 20Conductivity: C1100 >97% ;C12200>80%
- Common Applications: LPG and Natural Gas Distribution, Snow-Melting Systems, Waste Drainage and Venting, Cable Terminals, Air Conditioning and Refrigeration, Water Distribution

COPPER CAPILLARY TUBE



Copper Capillary Tubes are extremely thin in diameter, and are used to flow liquid up into the tubes against the effects of gravity in a process called the Capillary Action. Machines such as thermostats utilize these.

SPECIFICATIONS

- Grade: C10200 C12200 C2680 C27200 C27000 etc.
- Outside diameter: ≤ 5.0 mm
- Thickness: ≤ 0.5 mm
- Coil weight: 5kg/20kg/30kg/50kg
- Process Method: cold drawn and cold rolled
- Surface: pickled or sand blasting
- Common Applications: Air Conditioners, Refrigerators, Water Distribution, Fuel/Oil Transportation, Drainage/Waste Piping, Heat Exchange.

COPPER LEVEL WOUND COILS



LWC Copper Coils are similar to Copper Pancake Coils, except it is more than one coil tall. Instead it is a large number of Pancake Coils stacked on top of each other in a level manner.

SPECIFICATIONS

- Grade: C12200 C10200
- Type: Phosphorous Deoxidized, Oxygen Free, UNS.
- Outside diameter: 4mm - 22.3mm
- Thickness: 0.3mm - 1.5mm
- Coil weight: customized
- Temper: soft, half hard soft, half hard, hard
- Standard: ASTM B-280, EN-12735, JISH-3300, GB/T-17791
- Common Applications: Air Conditioning Units, Refrigeration, LPG/Fuel/Oil Distribution, Water Distribution, Snow/Waste Drainage and Venting.

BRASS TUBE/PIPE



Brass is a highly malleable alloy making it a metal of choice amongst many users. It is highly resistant to corrosion so it's often used in bathrooms and other moisture-prone areas. Additionally, it's eye-catching golden glaze when polished makes it a popular decorative alloy.

SPECIFICATIONS

- Grade: C23000 C24000 C26000 C26200 C27000 C72000 C28000
- Outer Diameter: 4mm-203mm
- Thickness: 0.5mm-3.5mm
- Length: 1m - 9m
- Temper: O50 O60
- Common Applications: Arsenical Brass Tube, Sanitation Pipes, Bed Frames, Ornaments, Radiator Pipes, Oil-Cooler Pipes, Condenser Pipes.

PACKING



SMC SHANGHAI METAL CORPORATION	
Description	
BOX NO. 箱号	1
规格 SIZE	0.4mm*9.53mm
硬度 HARDNESS	SOFT
牌号 GRADE	C1220
产地 PLACE OF ORIGIN	MADE IN CHINA BY SMC
发票号 INVOICE NO.	1516522-P26
客户订单号 PO NO.	1516522
日期 DATE	
净重 NET WEIGHT	KG
毛重 GROSS WEIGHT	KG
等级 GRADE	1
Tel: +86-21-5830 9368 Fax: +86-21-5081 9492 sales@shanghaimetal.com www.shanghaimetal.com	

Grade	Hardness	Tensile Strength (kgf/mm ²)	Elongation (%)
C2200	O	>23	>35
	1/4H	26-34	>25
	1/2H	29-37	>20
	H	>34	-
C2300	O	>25	>40
	1/4H	28-36	>28
	1/2H	31-39	>23
	H	>36	-
C2600	O	>28	>40
	1/4H	33-42	>35
	1/2H	36-45	>28
	3/4H	40-48	>15
	H	42-55	-
	EH	>53	-
	SH	>60	-
C2680	O	>28	>40
	1/4H	33-42	>35
	1/2H	36-45	>28
	3/4H	40-48	>15
	H	42-55	-
	EH	>53	-
	SH	>60	-
C2801	O	>33	>35
	1/4H	36-45	>25
	1/2H	42-50	>15
	3/4H	40-50	>10
	H	>48	-
	EH	>55	-

