



CREATE EXCELLENCE ADVOCATE CIVILIZATION

Hengtong Precision Copper Co.,Ltd.

# INTRODUCTION OF HENGTONG GROUP



Hengtong Group is an international innovative enterprise in the fields of Optical Fiber Network, Energy Internet, Big Data IoT, New Energy, New Materials, etc. Hengtong Group has more than 70 wholly-owned and holding companies (including 5 listed companies), with industries distributed in 15 provinces in China. In the meantime, the Group has established 12 overseas industrial bases in Europe, America, Africa and Asia with over 40 overseas sales & technical services companies/offices, with its business covering more than 150 countries and regions.



Communication Industry



Power Industry



New Materials Industry



International Business



New Business Sector



Communication and Operation Sector

## 1991

Since The Founding of Hengtong Group in 1991

## Top 100

Top 100 Private Enterprises of China

## Top500

Top 500 Enterprises of China

## 15%

15% Global Market Share of Fiber Optic Communication

## Top 3

Top 3 in Global Submarine Cable System

## Top 3

Top 3 in Global Optical Communication

## Top 3

Top 3 in Global Ocean Communication System

## 20%

20% Global Market Share of Ocean Communication

# GLOBAL OPERATIONS



**12**

12 overseas industrial bases

**40+**

40+ overseas sales & technical services companies/offices

**150+**

150+ countries and regions covered with Hengtong business



Suzhou Optical Communication Technology Park (Wujiang, Suzhou)



Hengtong Changshu International Marine Industrial Park



Hengtong Wire and Cable Industrial Park (Qidu, Suzhou)

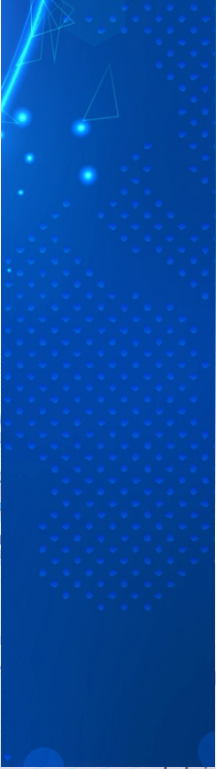
# COMPANY PROFILE



CREATE EXCELLENCE ADVOCATE CIVILIZATION

Jiangsu Hengtong Precision Copper Co., Ltd. is located at Qidu Township by the Taihu Lake, a township with the reputation of the capital of optical cable in China. The company is a wholly-owned subsidiary of Hengtong Group. It has passed the ISO9001 international quality management system certification, ISO14001:2015 environmental management system certification, and OHSAS18001:2007 occupational health and safety management system certification. The registered capital of the company is 390 million CNY, with 300 employees at present, an area of 60,000 square meters and an annual output of over 60,000 tons.

The products of Hengtong Precision Copper Co.,Ltd. include high-precision copper strip, rolled copper foil, etc., mainly used in new energy, electronics, power, 5G, communication, automotive, semiconductor, bimetal composite and other fields. The products are widely used in China, and have been exported to Spain, Portugal, Poland, Thailand, Vietnam, Malaysia, Indonesia and other countries, providing customers with excellent and stable quality copper sheets, copper strips and copper foils.



# QUALIFICATION CERTIFICATES



CREATE EXCELLENCE ADVOCATE CIVILIZATION

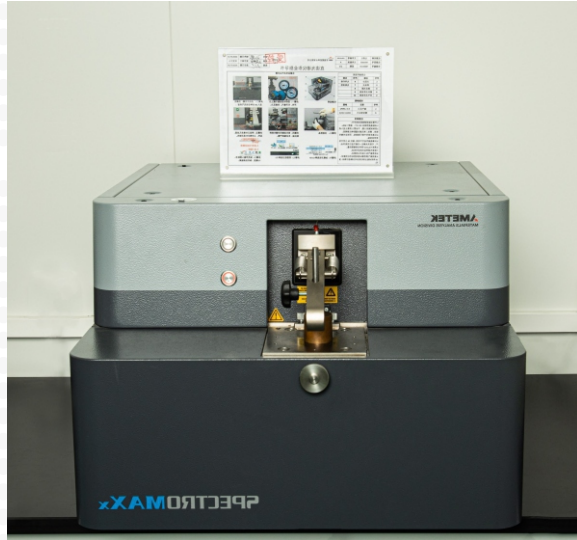
- Safty Data Sheet (SDS)
- Restriction of Hazardous Substances (RoHs )
- SVHC-Substances of Very High Concern (SVHC )
- GB/T 19001-2016/ISO9001:2015 International QualityManagement System Certification



# TEST EQUIPMENT



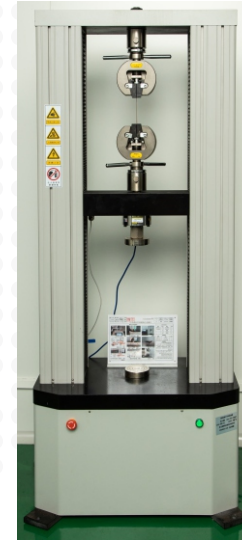
CREATE EXCELLENCE ADVOCATE CIVILIZATION



Optical Emission Composition Spectrometer



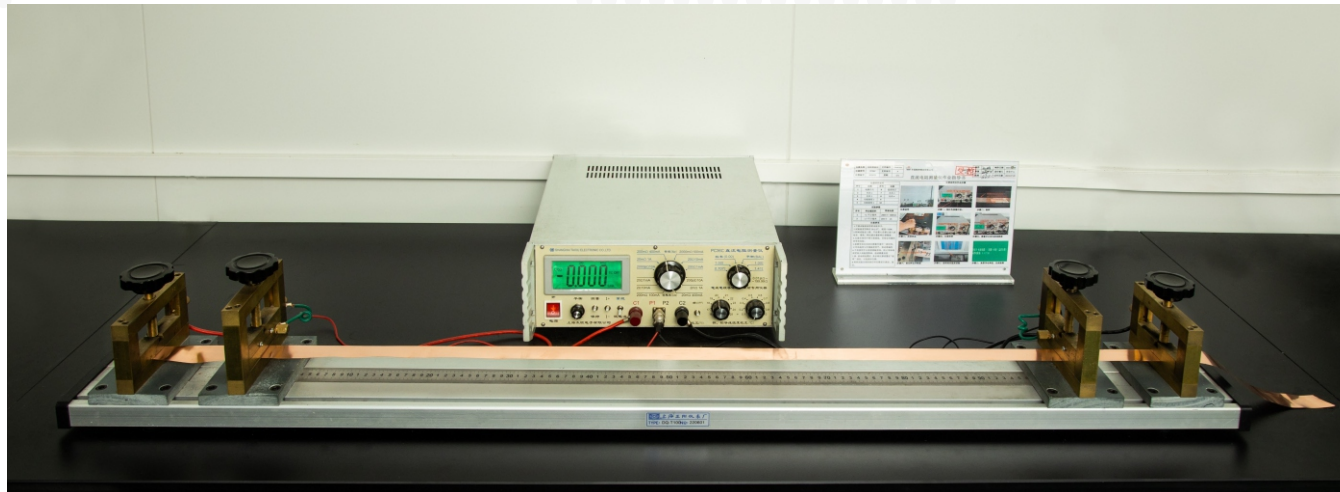
Surface Quality Online Detector



Universal Tensile Testing Machine



Eddy Current Conductivity Detector



DC Resistance Measuring Instrument



Micro Vickers Hardness Tester

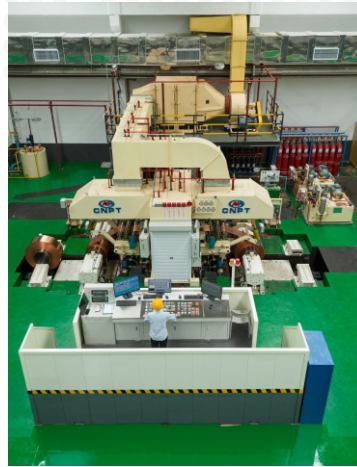
# PRODUCTION EQUIPMENT



CREATE EXCELLENCE ADVOCATE CIVILIZATION



Horizontal Continuous Casting Machine



Copper Foil Finishing Rolling Mill



Copper Strip Cleaning and Passivation Machine



Copper Strip Slitting Machine



4-Roll Roughing Rolling Mill



Bell-type Annealing Furnace



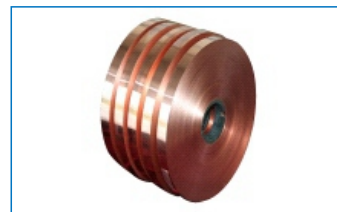
### Copper tape for power cable

Executive standard	GB/T 11091	BS EN 13599	ASTM B152
Designation	TU1、 TU2、 T2	Cu-OF、 Cu-ETP	C10200、 C10300、 C11000
Application	It is mainly used for power cable shielding and plays the role of shielding electric field.		
Thickness	0.05-0.1mm	> 0.1-0.15mm	> 0.15-0.3mm
Tolerance on thickness	±0.003mm	±0.004mm	±0.005mm
Width	Determined by demand		
Tolerance on width	±0.1mm		
Weight or length	Negotiation between supply and demand		
Condition	O60		
Tensile Strength	200-270MPa		
Elongation	0.05mm≤Thickness, < 0.075mm, A50≥15%	0.075mm≤Thickness < 0.1mm, A50≥20%	Thickness≥0.1mm, A50≥28%
Vickers hardness	50-65HV		
Electric conductivity	T2 ≥ 98%IACS; TU2, TU1 ≥ 100%IACS		

When the thickness tolerance or width tolerance required by the demander is (+) or (-) one-way deviation, the value shall be 2 times of the data in the table.

Other designations, conditions and specifications can be supplied by both parties through consultation.

The technical specification of copper tape for thickness less than 0.1mm shall be subject to the standard negotiated by both parties.



APPLICATION AREA







### Copper tape for coaxial radio frequency cable

Executive standard	GB/T 11091	BS EN 13599	ASTM B152
Designation	TU1、 TU2、 T2	Cu-OF、 Cu-ETP	C10200、 C10300、 C11000
Application	It is mainly used as the outer conductor of RF cable of mobile communication base station and plays the role of signal transmission.		
Thickness	> 0.1-0.15mm	> 0.15-0.3mm	> 0.3-0.4mm
Tolerance on thickness	±0.004mm	±0.005mm	±0.007mm
Width	Determined by demand		
Tolerance on width	±0.1mm		
Weight or length	Negotiation between supply and demand		
Condition	O60		
Tensile Strength	200-270MPa		
Elongation	≥30%		
Vickers hardness	50-65HV		
Electric conductivity	T2≥98%IACS ; TU2, TU1 ≥100%IACS		

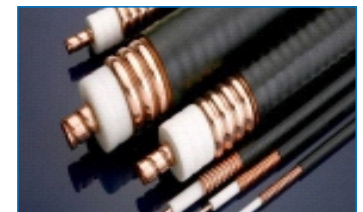
When the tolerance on thickness or width required by the demander is (+) or (-) one-way deviation, the value shall be 2 times of the data in the table.

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The technical specification of copper tape for thickness less than 0.1mm shall be subject to the standard negotiated by both parties.



APPLICATION AREA





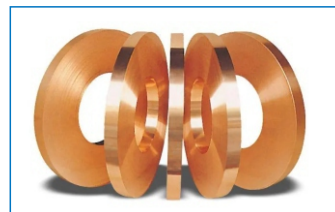
### Copper tape for marine cable

Executive standard	GB/T 11091	BS EN 13599		ASTM B152
Designation	TU1、 TU2、 T2	Cu-OF、 Cu-ETP		C10200、 C10300、 C11000
Application	It is mainly used for the outer conductor or shield of marine cables, and plays the role of signal transmission or power transmission.			
Thickness	> 0.3-0.4mm	> 0.4-0.5mm	> 0.5-0.6mm	> 0.6-0.7mm
Tolerance on thickness	±0.007mm	±0.008mm	±0.009mm	±0.010mm
Width	Determined by demand			
Tolerance on width	±0.1mm			
Weight or length	Negotiation between supply and demand			
Condition	O60			
Tensile Strength	200-270MPa			
Elongation	≥30%			
Vickers hardness	50-65HV			
Electric conductivity	T2≥98%IACS ; TU2, TU1≥100%IACS			

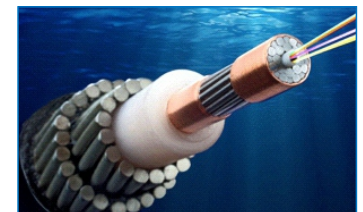
When the tolerance on thickness or width required by the demander is (+) or (-) one-way deviation, the value shall be 2 times of the data in the table.

Other designations, conditions and specifications can be supplied by both parties through consultation.

The technical specification of copper tape for thickness less than 0.1mm shall be subject to the standard negotiated by both parties.



APPLICATION AREA





### Copper tape for flexible fire-proof cable

Executive standard	GB/T 11091		BS EN 13599		ASTM B152	
Designation	TU1、 TU2、 T2		Cu-OF、 Cu-ETP		C10200、 C10300、 C11000	
Application	Used for fireproof cables, the main functions are fire resistance, high temperature resistance, long life, high mechanical strength, explosion-proof, waterproof, corrosion resistance and so on.					
Thickness	> 0.2-0.3mm	> 0.3-0.4mm	> 0.4-0.5mm	> 0.5-0.6mm	> 0.6-0.7mm	> 0.7-0.8mm
Tolerance on thickness	±0.005mm	±0.007mm	±0.008mm	±0.009mm	±0.010mm	±0.012mm
Width	Determined by demand					
Tolerance on width	±0.1mm					
Weight or length	Negotiation between supply and demand					
Condition	O60					
Tensile Strength	200-270MPa					
Elongation	≥30%					
Vickers hardness	50-65HV					
Electric conductivity	T2 ≥ 98%IACS ; TU2, TU1 ≥ 100%IACS					

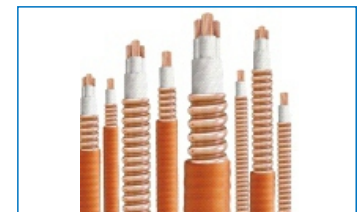
When the thickness tolerance or width tolerance required by the demander is (+) or (-) one-way deviation, the value shall be 2 times of the data in the table.

Other designations, conditions and specifications can be supplied by both parties through consultation.

The technical specification of copper tape for thickness less than 0.1mm shall be subject to the standard negotiated by both parties.



APPLICATION AREA





### Copper tape for leakage cable

Executive standard	GB/T 11091	BS EN 13599	ASTM B152
Designation	TU1、 TU2、 T2	Cu-OF、 Cu-ETP	C10200、 C10300、 C11000
Application	It is mainly used as the outer conductor of leakage cable, which plays the role of signal transmission, transmission and acceptance.		
Thickness	0.07-0.1mm	> 0.1-0.15mm	
Tolerance on thickness	±0.003mm	±0.004mm	
Width	Determined by demand		
Tolerance on width	±0.1mm		
Weight or length	Negotiation between supply and demand		
Condition	O60		
Tensile Strength	200-270MPa		
Elongation	0.07mm≤Thickness < 0.1mm , A50≥15%	Thickness≥0.1mm,A50≥28%	
Vickers hardness	50-65HV		
Electric conductivity	T2≥98%IACS ; TU2, TU1≥100%IACS		

When the tolerance on thickness or width required by the demander is (+) or (-) one-way deviation, the value shall be 2 times of the data in the table.

Other designations, conditions and specifications can be supplied by both parties through consultation.

The technical specification of copper tape for thickness less than 0.1mm shall be subject to the standard negotiated by both parties.



APPLICATION AREA





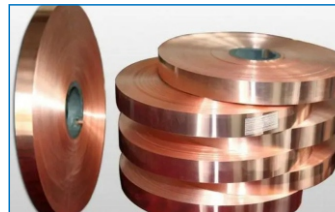
### Copper tape for copper clad aluminum

Executive standard	GB/T 2059		BS EN 13599		ASTM B152	
Designation	TU1、 TU2、 T2		Cu-OF、 Cu-ETP		C10200、 C10300、 C11000	
Application	It is mainly used for the outer conductor of copper clad aluminum wire.					
Thickness	> 0.2-0.3mm	> 0.3-0.4mm	> 0.4-0.5mm	> 0.5-0.6mm		
Tolerance on thickness	±0.005mm	±0.007mm	±0.008mm		±0.009mm	
Width	Determined by demand					
Tolerance on width	±0.1mm					
Weight or length	Negotiation between supply and demand					
Condition	O60					
Tensile Strength	≥195MPa					
Elongation	≥30%					
Vickers hardness	≤70HV					
Electric conductivity	T2 ≥ 98%IACS ; TU2, TU1 ≥ 100%IACS					

When the tolerance on thickness or width required by the demander is (+) or (-) one-way deviation, the value shall be 2 times of the data in the table.

Other designations, conditions and specifications can be supplied by both parties through consultation.

The technical specification of copper tape for thickness less than 0.1mm shall be subject to the standard negotiated by both parties.



APPLICATION AREA





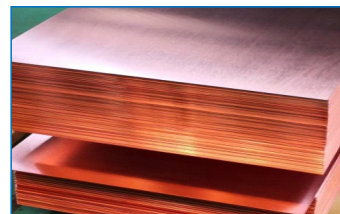
### Copper plate/sheet/tape for conducting electricity

Executive standard	GB/T 2040 ; GB/T 2059		BS EN 13599		ASTM B152	
Designation	TU1、 TU2、 T2		Cu-OF、 Cu-ETP		C10200、 C10300、 C11000	
Application	It is mainly used for power transmission.					
Thickness	> 0.5-0.8mm	0.8-1.2mm	> 1.2-2.0mm	> 2.0-3.0mm	> 3.0-5.0mm	> 5.0-8.0mm
Tolerance on thickness	±0.012mm	±0.015mm	±0.020mm	±0.025mm	±0.030mm	±0.035mm
Width	Determined by demand					
Tolerance on width	±0.1mm					
Weight or length	Negotiation between supply and demand					
Condition	O60			H02		
Tensile Strength	≥195MPa			245-345MPa		
Elongation	≥30%			≥8%		
Vickers hardness	≤70HV			80-110HV		
Electric conductivity	T2≥98%IACS ; TU2, TU1≥100%IACS			-		

When the tolerance on thickness or width required by the demander is (+) or (-) one-way deviation, the value shall be 2 times of the data in the table.

Other designations, conditions and specifications can be supplied by both parties through consultation.

The technical specification of copper tape for thickness less than 0.1mm shall be subject to the standard negotiated by both parties.



APPLICATION AREA





## Copper plate/sheet/tape for soft connection of electric power

Executive standard	GB/T 2040 ; GB/T 2059		BS EN 13599		ASTM B152	
Designation	TU1、 TU2、 T2		Cu-OF、 Cu-ETP		C10200、 C10300、 C11000	
Application	It is mainly used for power soft connection and plays the role of power transmission and connection.					
Thickness	> 0.2-0.3mm	> 0.3-0.4mm	> 0.4-0.5mm	> 0.5-0.6mm	> 0.6-0.8mm	0.8-1.0mm
Tolerance on thickness	±0.005mm	±0.007mm	±0.008mm	±0.009mm	±0.012mm	±0.015mm
Width	Determined by demand					
Tolerance on width	±0.1mm					
Weight or length	Negotiation between supply and demand					
Condition	O60			H02		
Tensile Strength	≥195MPa			245-345MPa		
Elongation	≥30%			≥8%		
Vickers hardness	≤70HV			80-110HV		
Electric conductivity	T2≥98%IACS ; TU2, TU1≥100%IACS			-		

When the tolerance on thickness or width required by the demander is (+) or (-) one-way deviation, the value shall be 2 times of the data in the table.

Other designations, conditions and specifications can be supplied by both parties through consultation.

The technical specification of copper tape for thickness less than 0.1mm shall be subject to the standard negotiated by both parties.



APPLICATION AREA





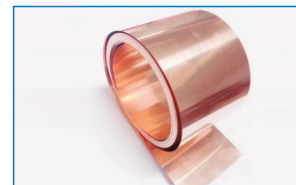
## Copper tape for soft connection of lithium batteries

Executive standard	GB/T 2040 ; GB/T 2059	BS EN 13599	ASTM B152
Designation	TU1、 TU2、 T2	Cu-OF、 Cu-ETP	C10200、 C10300、 C11000
Application	It is mainly used for soft connection of lithium battery and plays the role of power transmission and connection.		
Thickness	0.05-0.1mm	> 0.1-0.15mm	
Tolerance on thickness	±0.003mm	±0.004mm	
Width	Determined by demand		
Tolerance on width	±0.1mm		
Weight or length	Negotiation between supply and demand		
Condition	O60	H02	
Tensile Strength	≥195MPa	245-345MPa	
Elongation	0.05mm≤Thickness < 0.075mm, A50≥15%; 0.075mm≤Thickness < 0.1mm, A50≥20%; Thickness≥0.1mm, A50≥28%.	≥8%	
Vickers hardness	≤70HV	80-110HV	
Electric conductivity	T2≥98%IACS ; TU2, TU1≥100%IACS	-	

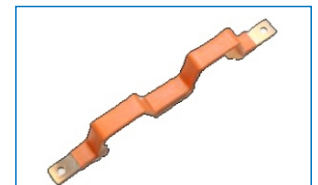
When the tolerance on thickness or width required by the demander is (+) or (-) one-way deviation, the value shall be 2 times of the data in the table.

Other designations, conditions and specifications can be supplied by both parties through consultation.

The technical specification of copper tape for thickness less than 0.1mm shall be subject to the standard negotiated by both parties.



APPLICATION AREA







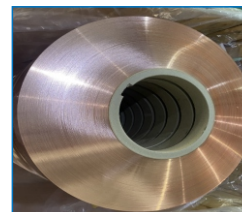
### Copper tape for hard connection

Executive standard	GB/T 2040 ; GB/T 2059		BS EN 13599		ASTM B152	
Designation	TU1、 TU2、 T2		Cu-OF、 Cu-ETP		C10200、 C10300、 C11000	
Application	It is mainly used for hard connection and plays the role of power transmission and connection.					
Thickness	0.5-0.65mm	> 0.65-0.8mm	> 0.8-1.2mm	> 1.2-2.0mm	> 2.0-3.0mm	> 3.0-5.0mm
Tolerance on thickness	±0.010mm	±0.012mm	±0.015mm	±0.020mm	±0.025mm	±0.030mm
Width	Determined by demand					
Tolerance on width	±0.1mm					
Weight or length	Negotiation between supply and demand					
Condition	O60		H02		H04	
Tensile Strength	≥195MPa		245-345MPa		295-395MPa	
Elongation	≥30%		≥8%		≥3%	
Vickers hardness	≤70HV		80-110HV		90-120HV	
Electric conductivity	T2≥98%IACS ; TU2, TU1≥100%IACS		-			

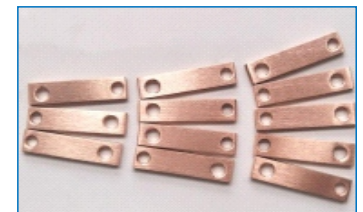
When the tolerance on thickness or width required by the demander is (+) or (-) one-way deviation, the value shall be 2 times of the data in the table.

Other designations, conditions and specifications can be supplied by both parties through consultation.

The technical specification of copper tape for thickness less than 0.1 mm shall be subject to the standard negotiated by both parties.



APPLICATION AREA





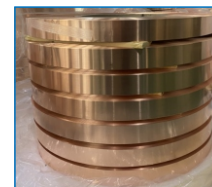
### Copper tape for composite materials

Executive standard	GB/T 2059		BS EN 13599		ASTM B152	
Designation	TU1、 TU2、 T2		Cu-OF、 Cu-ETP		C10200、 C10300、 C11000	
Application	It is mainly used as the matrix of composite materials and plays the role of power transmission.					
Thickness	> 0.5-0.65mm	> 0.65-0.8mm	> 0.8-1.2mm	> 1.2-2.0mm	> 2.0-3.0mm	> 3.0-5.0mm
Tolerance on thickness	±0.010mm	±0.012mm	±0.015mm	±0.020mm	±0.025mm	±0.030mm
Width	Determined by demand					
Tolerance on width	±0.1mm					
Weight or length	Negotiation between supply and demand					
Condition	O60					
Tensile Strength	≥195MPa					
Elongation	≥30%					
Vickers hardness	≤70HV					
Electric conductivity	T2≥98%IACS ; TU2, TU1≥100%IACS					

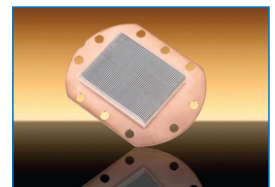
When the tolerance on thickness or width required by the demander is (+) or (-) one-way deviation, the value shall be 2 times of the data in the table.

Other designations, conditions and specifications can be supplied by both parties through consultation.

The technical specification of copper tape for thickness less than 0.1mm shall be subject to the standard negotiated by both parties.



APPLICATION AREA





## Copper plate/sheet for IGBT

Designation	GB		EN		ASTM
	T2、TFe0.1		Cu-ETP		C11000、C19210
Executive standard	GB/T 2040 ; GB/T 2059		BS EN 13599		ASTM B152
Application	Mainly used for IGBT module substrate, plays the role of power transmission.				
Thickness	> 0.8-1.2mm	> 1.2-2.0mm	> 2.0-3.0mm	> 3.0-5.0mm	> 5.0-8.0mm
Tolerance on thickness	±0.015mm	±0.020mm	±0.025mm	±0.030mm	±0.035mm
Width	Determined by demand				
Tolerance on width	±0.1mm				
Weight or length	Negotiation between supply and demand				
Condition	O60				
Tensile Strength	≥195MPa				
Elongation	≥30%				
Vickers hardness	≤70HV				
Electric conductivity	T2≥98%IACS ; TU2, TU1≥100%IACS				

When the tolerance on thickness or width required by the demander is (+) or (-) one-way deviation, the value shall be 2 times of the data in the table.

Other designations, conditions and specifications can be supplied by both parties through consultation.

The technical specification of copper tape for thickness less than 0.1mm shall be subject to the standard negotiated by both parties.



APPLICATION AREA





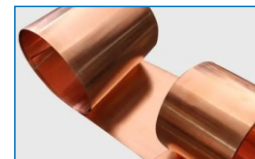
### Copper tape for electronics

Executive standard	GB/T 2059				BS EN 13599				ASTM B152			
Designation	TU1、TU2、T2				Cu-OF、Cu-ETP				C10200、C10300、C11000			
Application	Mainly used in tablet, mobile phone, computer, electrical product components.											
Thickness	0.07-0.1mm	> 0.1-0.15mm	> 0.15-0.2mm	> 0.2-0.3mm	> 0.3-0.4mm	> 0.4-0.5mm	> 0.5-0.6mm	> 0.6-0.7mm	> 0.7-0.8mm	> 0.8-1.2mm	> 1.2-2.0mm	
Tolerance on thickness	±0.003mm	±0.004mm	±0.005mm	±0.005mm	±0.007mm	±0.008mm	±0.009mm	±0.010mm	±0.012mm	±0.015mm	±0.020mm	
Width	Determined by demand											
Tolerance on width	±0.1mm											
Weight or length	Negotiation between supply and demand											
Condition	O60				H01		H02		H04		H06	
Tensile Strength	≥195MPa				215-295MPa		245-345MPa		295-395MPa		≥350MPa	
Elongation	0.07mm≤Thickness < 0.1mm, A50≥15%; Thickness≥0.1mm, A50≥28%.				≥25%		≥8%		≥3%		-	
Vickers hardness	≤70HV				60-95HV		80-110HV		90-120HV		≥110HV	

When the tolerance on thickness or width required by the demander is (+) or (-) one-way deviation, the value shall be 2 times of the data in the table.

Other designations, conditions and specifications can be supplied by both parties through consultation.

The technical specification of copper tape for thickness less than 0.1mm shall be subject to the standard negotiated by both parties.



APPLICATION AREA





### Copper tape for heat exchanger

Executive standard	GB/T 2059		BS EN 13599			ASTMB152	
Designation	T2		Cu-ETP			C11000	
Application	Mainly used for heat exchanger housing and heat sink.						
Thickness	> 0.1-0.15 mm	> 0.15-0.2 mm	> 0.2-0.3mm	> 0.3-0.4mm	> 0.4-0.5mm	> 0.5-0.6mm	> 0.6-0.7mm
Tolerance on thickness	±0.004mm	±0.005mm	±0.005mm	±0.006mm	±0.007mm	±0.008mm	±0.010mm
Width	Determined by demand						
Tolerance on width	±0.1mm						
Weight or length	Determined by demand						
Condition	O60						
Tensile Strength	200-270MPa						
Elongation	≥30%						
Vickers hardness	50-70HV						
Erishen cupping	≥7.5mm						

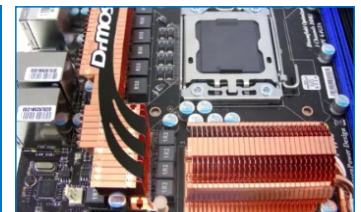
When the tolerance on thickness or width required by the demander is (+) or (-) one-way deviation, the value shall be 2 times of the data in the table.

Other designations, conditions and specifications can be supplied by both parties through consultation.

The technical specification of copper tape for thickness less than 0.1 mm shall be subject to the standard negotiated by both parties.



APPLICATION AREA





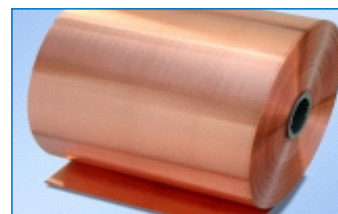
### Copper tape for transformer

Executive standard	GB/T 18813		BS EN 13599				ASTM B152		
Designation	TU1、 T2		Cu-OF、 Cu-ETP				C10200、 C11000		
Application	It is mainly used for power transmission.								
Thickness ( mm )	-	0.1-0.3	> 0.3-0.5	> 0.5-0.7	> 0.7-1.1	> 1.1-1.5	> 1.5-2.0	> 2.0-2.5	> 2.5-3.0
Tolerance on thickness ( mm )	W≤600	±0.10	±0.15	±0.20	±0.20	±0.30	±0.35	±0.40	±0.45
	W > 600	±0.10	±0.20	±0.35	±0.40	±0.45	±0.60	±0.60	±0.70
Width ( mm )	-		≤100		> 100-300		> 300-600		> 600-1400
Tolerance on width ( mm )	T≤1.0		±0.10		±0.15		±0.30		±0.60
	1.0 < T≤1.5		±0.20		±0.25		±0.40		±0.70
	1.5 < T≤3.0		±0.25		±0.30		±0.50		±0.70
Weight or length	Negotiation between supply and demand								
Condition	O60								
Tensile Strength	195-260MPa								
Elongation	≥33%								
Vickers hardness	45-65HV								
Electric conductivity	T2≥98%IACS ; TU1≥100%IACS								

When the tolerance on thickness or width required by the demander is (+) or (-) one-way deviation, the value shall be 2 times of the data in the table.

Other designations, conditions and specifications can be supplied by both parties through consultation.

The technical specification of copper tape for thickness less than 0.1mm shall be subject to the standard negotiated by both parties.



APPLICATION AREA





Subscription Account  
of Hengtong Group



Subscription Account of Hengtong  
Group's Communication Industry



Subscription Account of Hengtong  
Group's Power Industry

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