, www.hongtai-copper.com

, www.hongtai-copper.com

Qingdao Hongtai Copper Co., Ltd.

QINGDAO HONGTAI COPPER TUBE CO., LTD.

Tel 0532-87311157

E-mail : info@hongtai-copper.com

Web :www.hongtai-copper.com

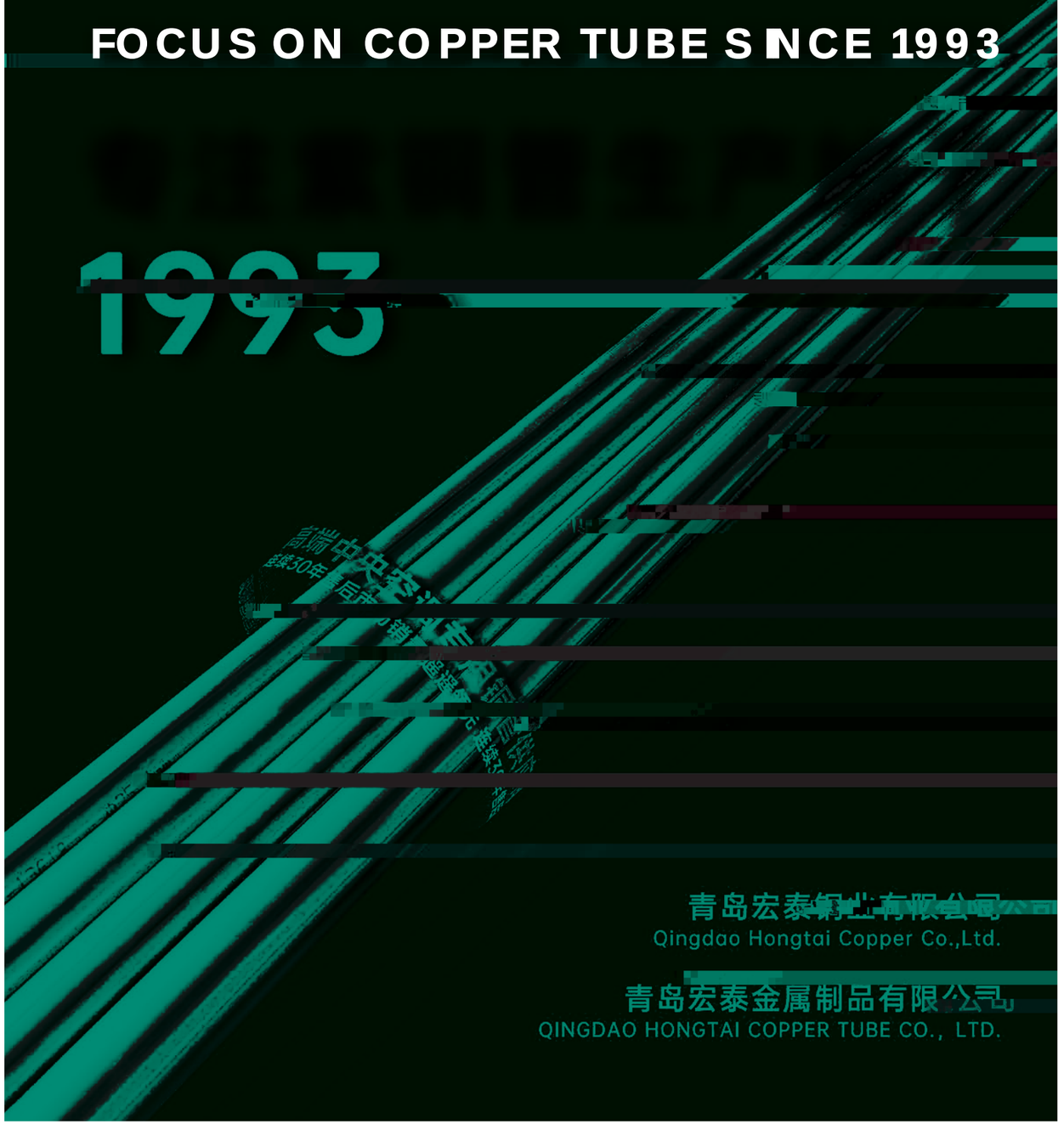
Add.): 101

No.101,Guiyang Road,Pingdu,Qingdao,China

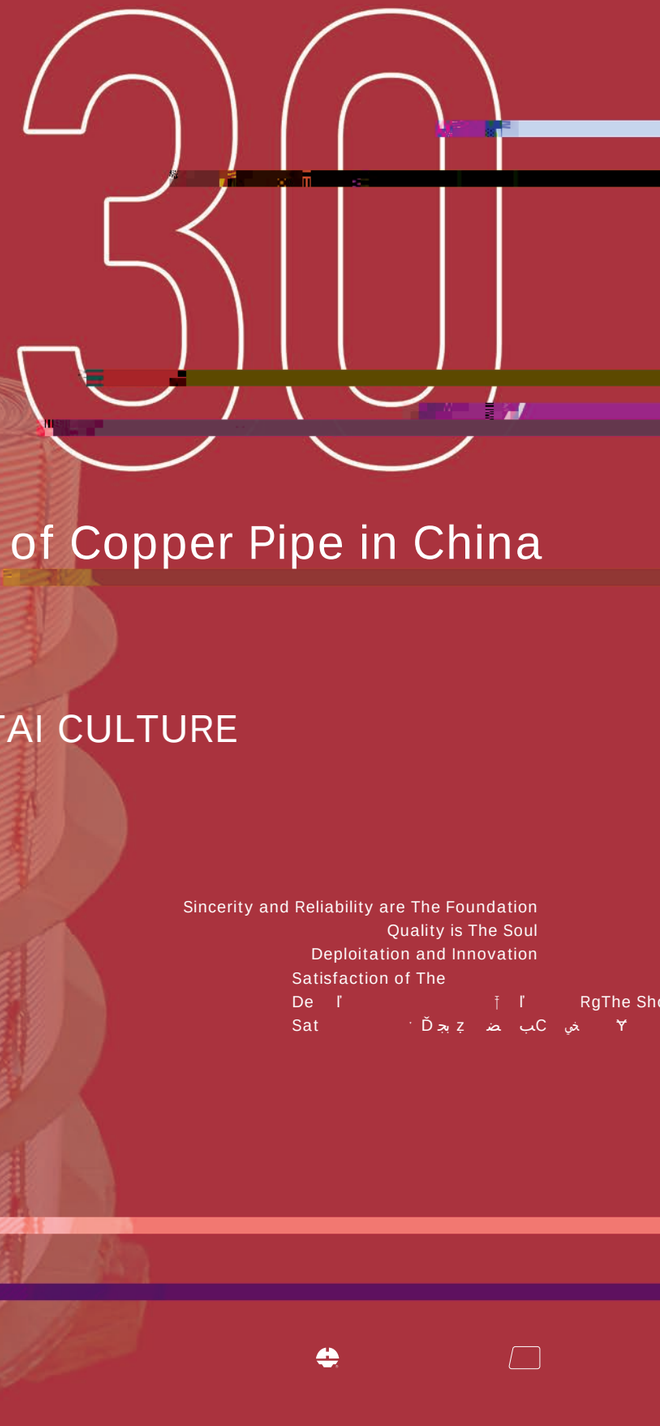
宏泰

FOCUS ON COPPER TUBE SINCE 1993

1993



30



Top 10 Enterprises of Copper Pipe in China

HONGTAI CULTURE

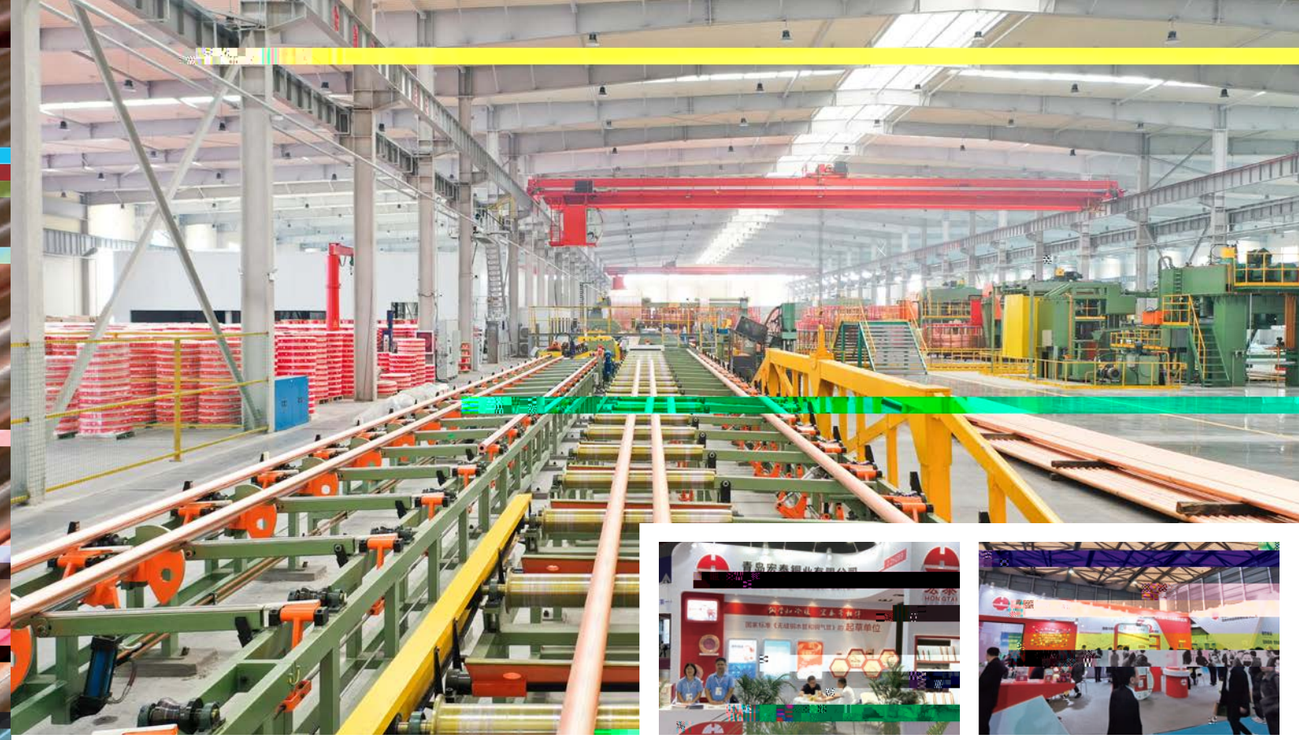
Always Keep The Spirit of Innovation
Never Betray Future for The Short-Term Interests

Sincerity and Reliability are The Foundation
Quality is The Soul
Deploitation and Innovation
Satisfaction of The

Ā m m u s a l o ā r ē d p p ē i r o ī

Advantage

- Participated In Drafting Enterprise For Multiple National Standards
- 30
  Top 10 In China's Copper Tube Industry
- 100%
  100% Cathode Electrolytic Copper As Raw Material
- Eddy Current Testing Per Meter
- 5
  Professional Copper Tube Manufacturer Since 1993
- 20 30
  Plentiful Specifications And Export Trade Experience



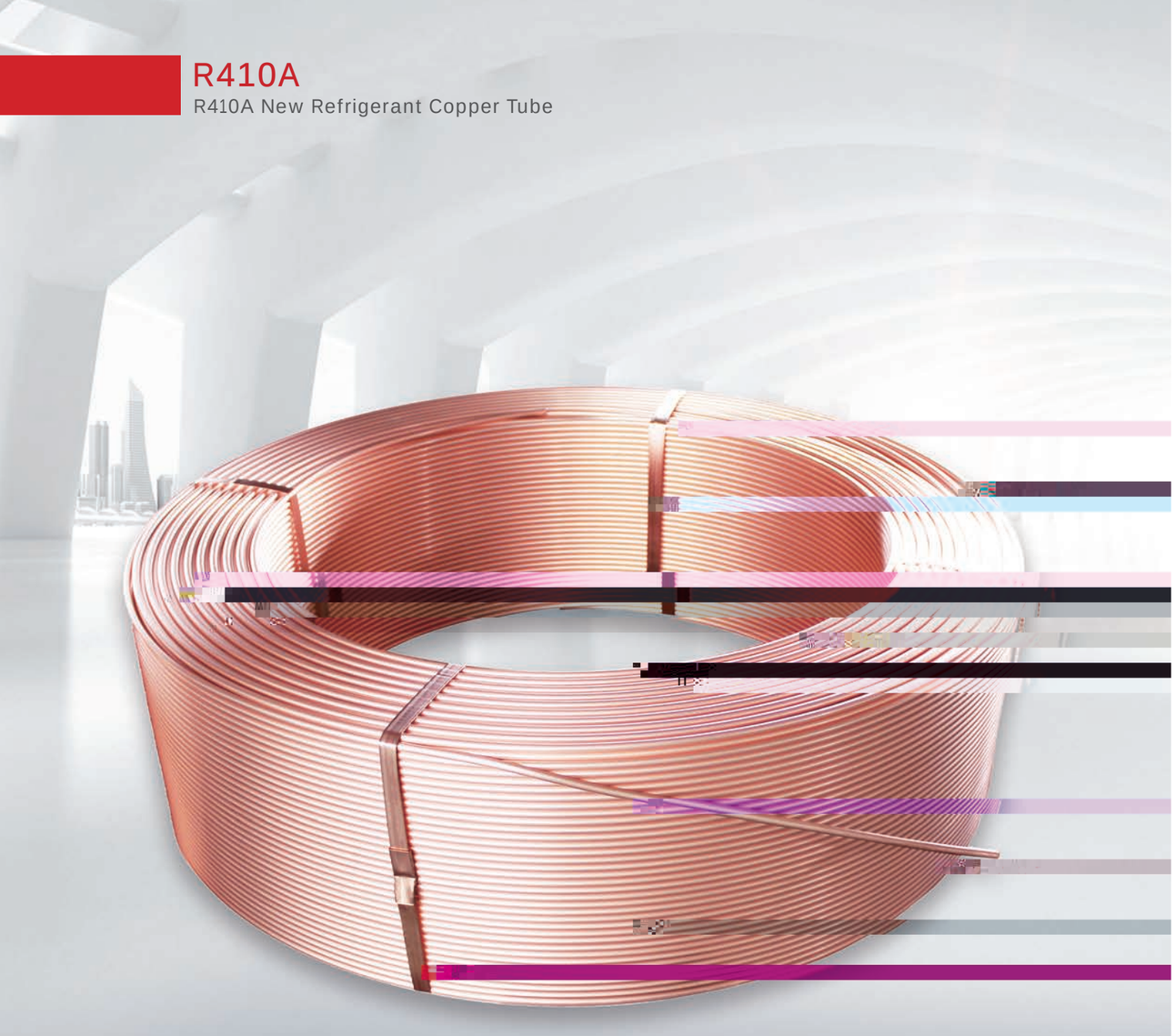




- “ ”
  Always Keep The Spirit Of Innovation, Never Betray The Future For The Short-Term Interests
- Diverse Testing Equipment And Comprehensive Quality System Ensure Product Quality
- Comprehensive Operational Service System Ensures The Best Customer Experience
- Experienced Workers And Adavanced Equipments

R410A

R410A New Refrigerant Copper Tube



Attribute

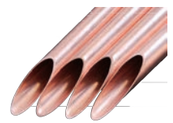
C12200(TP2)

GB/T 17791-2017 GB/T 1527-2017;
ASTMB 280 ASTM B68 ASTM B75
ASTM B837 EN 12735

Application: Air conditioning and refrigeration, radiator
Alloy No: C12200(TP2)
Temper: Hard / Half hard / Soft
Standard: GB/T 17791-2017; GB/T 1527-2017; ASTM B280;ASTM B68; ASTM B75; EN 12735

Presentation

- R410A TP2 ≥ 99.95% 0.015~0.040%
- REACH ROHS
- “ HongTai R410A ”
- 100~120 50~60






- Hongtai R410A copper tube is a continuous casting and rolling copper pipe with the grade TP2, with a copper content of ≥ 99.95% and a phosphorus content of 0.015-0.040%.
- Passed the EU REACH and ROHS inspections.
- The copper tube is marked with "HongTai R410A" for customer identification and traceability.
- Divided into coil tubes and straight tubes, coil tubes divided into LWC coil with unit weight 100-120 kgs and small coil with unit 50-60kgs.

Advantages

-
30
-
-
100 LG

P33

- Hongtai has over 30 years of specialized production experience in copper pipes and possesses advanced continuous casting and rolling production lines in China.

- The testing equipment is complete, equipped with advanced testing devices such as German made spectral analyzer, through type eddy current detector, metallographic microscope, universal material testing machine, etc., to ensure the quality of the products leaving the factory; Certified through the three major management systems of quality, environment, and occupational health and safety.

- Brand influence

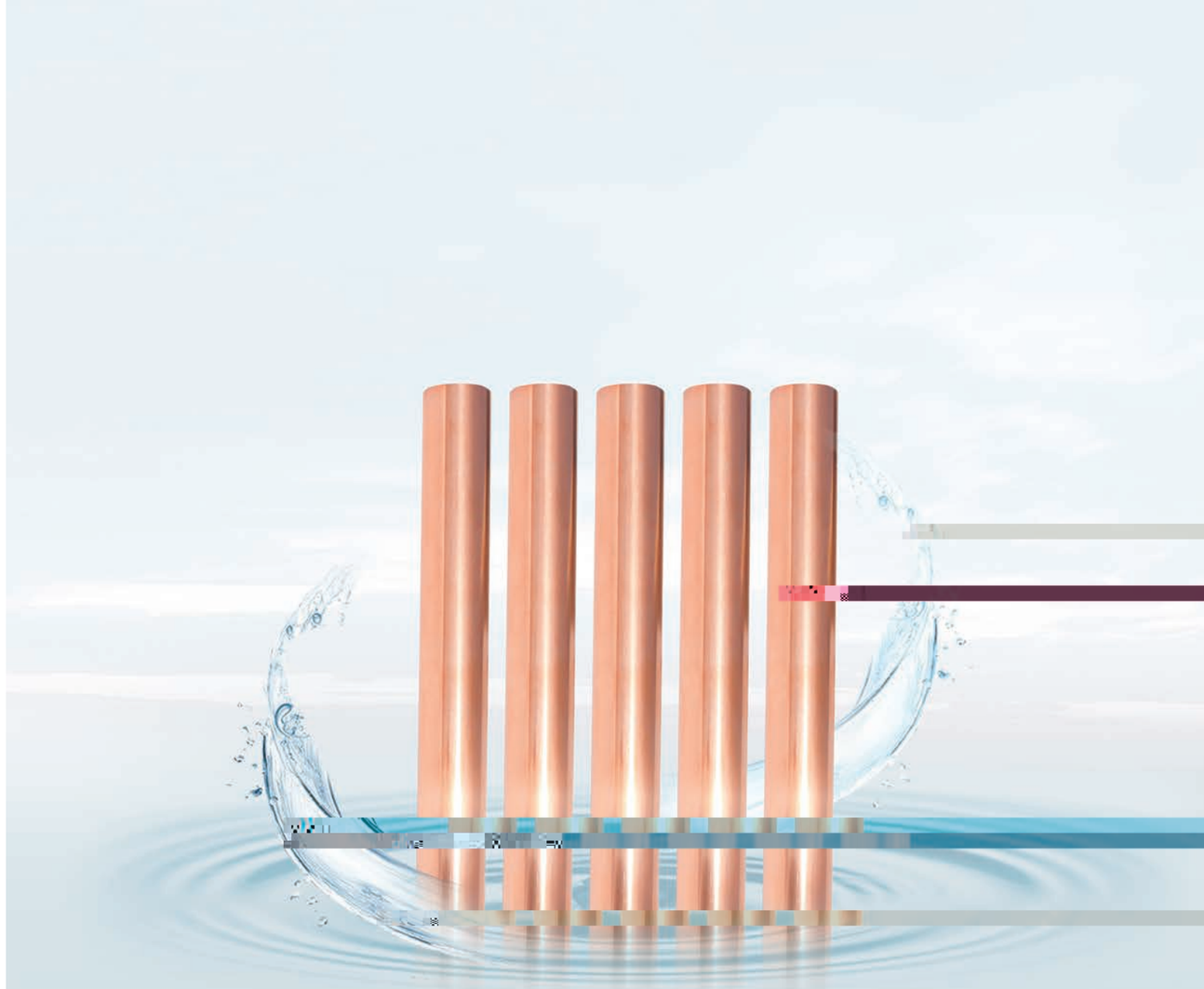
Hongtai implements an active brand strategy, with more than 100 authorized distributors across the country, and has established long-term cooperative relationships with air conditioning and refrigerator manufacturers such as Gree, Midea, LG, and Yangzi. Hongtai copper tubes are widely used in iconic projects such as Beijing National Stadium, Beijing Daxing International Airport, National Library, Peking University, Hainan Ocean Flower Island, NetEase

Specifications

	(mm)	(mm)		(Mpa)	(%)	(Mpa)

以上 是 制 单 取 似 也可格 按 客 求 产 数						

P=2Rmt/(D-0.8t) P--- D--- t--- Rm--- (205-210)



Attribute

C12200(TP2)

GB/T 18033-2017; ASTM B88;
EN 1057; AS 1432; NZS 3501
YS/T 451-2012

Presentation

- 99%
-
-
-
-

80

Focusing on the production of copper water pipe, introducing advanced production and testing equipment, strictly implementing national quality standard control, and participating in the drafting and formulation of the national standard for seamless copper water pipes and copper gas pipes. Hongtai copper water pipes have passed inspection and meet the requirements of drinking water hygiene and safety. The company has been awarded honors such as Shandong Famous Brand and China's Top Ten Copper Tube Materials Enterprises.

- Over 99% of bacteria in water cannot survive in copper pipes, effectively preventing bacterial growth.
- Low coefficient of thermal expansion at high temperatures, high strength at low temperatures, good toughness, high ductility, smooth inner walls, low friction, high flow rate, and no noise.
- Hongtai copper water pipes have a dense organizational structure, smooth surface, nitrogen pressure retention, prevent oxidation, and effectively isolate harmful substances from erosion.
- Recyclable and reusable, with high recycling value.
- Many famous buildings have proven the ultra long service life of copper water pipes, such as Peking Union Medical College Hospital and Qingdao's Mie'er Church. The copper water pipes are still in normal use after 80 years and have the same lifespan as the buildings.

Specifications

Copper Water Tube Size

		(mm)			(kg/m)			N/mm²								
								H80			H55/H58			O60/O50		
		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
														–	–	–
											–	–	–	–	–	–
											–	–	–	–	–	–
											–	–	–	–	–	–
											–	–	–	–	–	–
											–	–	–	–	–	–

PE-Coated Copper Pipe Size

		(mm)	(mm)	(mm)
	Type1	φ φ		
		φ φ		
	Type2	φ φ		
		φ φ		
		φ φ		
		φ φ		



Attribute

/ /

C12200(TP2)

YS/T 650-2020 ASTM B819

Application: Medical oxygen / nitrogen / carbon dioxide and other gas transmission, negative pressure suction system, compressed air system, medical water purification and air conditioning system

Alloy No: C12200(TP2)

Temper: Hard / Half hard / Soft

Standard: YS/T 650-2020 ASTM B819

Presentation

- C-LOCK
- ≤ 0.020g/m²
- YS/T650-2020
- 100%
- Adopting Hongtai's unique C-LOCK cold expansion patented technology, provide you with pre expansion tube services, effectively reducing construction costs and improving construction efficiency.
- Strictly implement the degreasing and cleaning work of the pipe wall, use high-quality metal surface cleaning agents, and ensure that the carbon residue on the inner wall meets the national standard requirement of ≤ 0.020g/m².
- Fully qualified

  Tested by authoritative institutions, it meets the requirements of the industry standard YS/T650-2020 "Seamless Copper Tubes for Medical Gas and Vacuum" and has passed the qualification certification of Quality, Environment, Occupational Health and Safety Management System.
- Hongtai Medical Copper Tube is 100% made of high-quality electrolytic copper as raw material, pure and free of impurities, with a long service life.
- Hongtai medical copper tubes are widely used in the construction projects of hospitals and medical institutions at all levels throughout the country, such as Beijing Tiantan Hospital, China-Japan Friendship Hospital, Shanghai Huashan Hospital, The Second Xiangya Hospital, Shandong Cancer Hospital, Hangzhou Children's Hospital, Beijing Xiaotangshan Hospital, Hubei Leishen Mountain and Huoshen Mountain Hospital...

Specifications

(mm)	(mm)	(mm)		(kg/m)		N/mm²					
						Y		Y_2		M	
		A	B	A	B	A	B	A	B	A	B
4	6										
6	8										
8	10										
10	12										
15	15										
—	18										
20	22										
25	28										
32	35										
40	42										
50	54										
65	67										
—	76										
80	89										
100	108										
125	133									—	—
150	159									—	—

(P) 65 (S) 63N/mm² (S) 50N/mm² (S) 41.2N/mm²

Remarks: The maximum working pressure (P) refers to the allowable stress (S) of 63N/mm ² for a hard tube, 50N/mm ² for a semi hard tube, and 41.2N/mm ² for soft tube under working conditions of 65 .

Hongtai Medical Pipeline System

Hongtai Medical Pipeline System includes medical gas system, air conditioning refrigeration and HVAC system, water purification system, and ward five constant system.

Presentation

- 100%
-
-
-
-
- 100% use high-quality pure electrolytic copper as raw material to eliminate waste. On the one hand, controlling impurity levels from raw materials significantly reduces the possibility of damage points; On the other hand, high-purity raw materials improve the anti-corrosion performance of copper pipes.
- The quality of the billet is the basis for determining the quality of the finished product, and a complete automated production line will ensure quality control from billet production to finished product delivery.
- The advanced continuous casting and rolling process makes the internal structure of the product denser, especially suitable for the water pressure expansion process of heating radiators. The copper tube can be tightly combined with the aluminum inner cavity, effectively reducing voids and improving thermal conductivity efficiency.
- Every meter of copper pipe that leaves the factory undergoes non-destructive testing to ensure that users have no worries.
- The product has high precision. Strictly implement mold maintenance and separate production processes, control the accuracy of outer diameter and wall thickness; Fine annealing process provides users with products with moderate softness and hardness.

Inner Grooved Copper Tube



20~30%

C12200(TP2)

GB/T 20928-2020 EN 12735; ASTM B280; ASTM B68 AS 1571 JIS H3300

Application: High thermal conductivity, widely used in air conditioning and refrigeration industry

Temper: Soft

Standard: GB/T 20928-2020 EN 12735; ASTM B280; ASTM B68 AS 1571 JIS H3300

Specifications

fi									
5 00X0 20+0 15-18	33	5 00	4 30	0 20	0 15	0 35	40	18	40
7 00X0 25+0 10-15	52	7 00	6 30	0 25	0 10	0 35	40	15	65
7 00X0 25+0 10-18	57	7 00	6 14	0 25	0 10	0 35	40	18	50
7 00X0 25+0 22-16	58	7 00	6 06	0 25	0 22	0 47	22	16	54
7 00X0 27+0 15-18	60	7 00	6 16	0 27	0 15	0 42	53	18	60
7 94X0 25+0 18-18	65	7 94	7 08	0 25	0 18	0 43	40	18	50
7 94X0 25+0 18-18	66	7 94	7 04	0 25	0 18	0 43	40	18	50
7 94X0 26+0 17-18	66	7 94	7 08	0 26	0 17	0 43	40	18	50
7 94X0 28+0 20-18	72	7 94	6 98	0 28	0 20	0 48	40	18	50
7 94X0 30+0 20-18	76	7 94	6 94	0 30	0 20	0 50	40	18	50
9 52X0 27+0 16-18	82	9 52	8 66	0 27	0 16	0 43	30	18	70
9 52X0 28+0 12-15	80	9 52	8 72	0 28	0 12	0 40	53	15	65
9 52X0 28+0 15-18	83	9 52	8 66	0 28	0 15	0 43	53	18	60
9 52X0 28+0 15-25	88	9 52	8 66	0 28	0 15	0 43	90	25	65
9 52X0 28+0 20-18	85	9 52	8 56	0 28	0 20	0 48	25	18	55
9 52X0 28+0 20-18	88	9 52	8 56	0 28	0 20	0 48	40	18	60
9 52X0 28+0 20-18	90	9 52	8 52	0 28	0 20	0 48	30	18	60
9 52X0 30+0 20-18	94	9 52	8 52	0 30	0 20	0 50	53	18	60
9 52X0 34+0 15-25	104	9 52	8 54	0 34	0 15	0 49	90	25	65
9 52X0 40+0 25-18	123	9 52	8 22	0 40	0 25	0 65	40	18	60

Pancake Coil



Attribute

C12200(TP2)

GB/T 17791-2017 GB/T 1527-2017 GB/T 18033-2017 YS/T 450-2013 ASTM B280 ASTM B68
ASTM B75 ASTM B88 EN 12735 AS 1571 AS 1432; JIS H3300 EN 1057

Application: Air conditioning, refrigeration, water pipe, gas pipe, copper tube for air conditioning installation and maintenance, copper tube for refrigerant transmission

Temper: Soft

Standard: D+ш¦ ÈÎÎÒÈ`èâÈÎ ∫ D+ш¦ ÈÌèÎ`èâÈÎ ∫ D+ш¦ ÈîâÊÊ`èâÈÎ ∫ Ã~ш¦ êÌâ`èâÈÊ ∫ ~¦b +èîâ ∫ ~¦b +ìî ∫ ~¦b +ÎÌ ∫ ~¦b +îî ∫8d ÈèÎÊÌ ∫ ~ÈÌÎÈ ∫ ~ÈêÊè XL~ IÊÊââ ∫8d ÈâÌÎ

Presentation

-
-
-

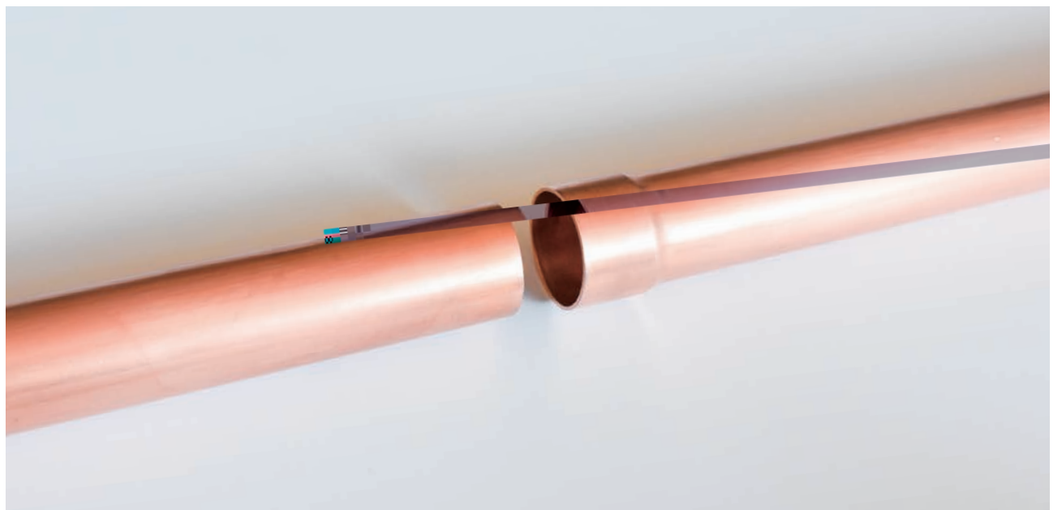
- 8çõÊ Ị ÃőÃn Ķċ I Ķİčőçė õĶłłÃn őŗóÃ ėĎ ĎŗóţÃõő őĶ GçÕ ûÃőÃõőėĶİę
- ~ŗłłĶņő őĶ Ị çĥÃ őÊÃ ĎĒĶņő ĎėŴÃ çĎ ŮĶŗn õĶİŧÃİėÃİõÃα ÃçĎŮ őĶ õçnnŮ çİû łçõĥĀûę
- Multiple packaging, isolated from oxidation, layer-by-layer protection, easy to transport.

Specifications

		0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.50
1/8"	3 18	O	O	O	O	O	O	O	O	-	-	-	-	-	-	-	-	-	-
3/16"	4 76	-	O	O	O	O	O	O	O	O	O	-	-	-	-	-	-	-	-
1/4"	6 35	O	O	O	O	O	O	O	O	O	O	O	O	O	-	-	-	-	-
5/16"	7 94	-	O	O	O	O	O	O	O	O	O	O	O	O	O	-	-	-	-
3/8"	9 52	-	-	O	O	O	O	O	O	O	O	O	O	O	O	O	-	-	-
1/2"	12 7	-	-	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
5/8"	15 88	-	-	-	-	O	O	O	O	O	O	O	O	O	O	O	O	O	O

O

3/16" 4



Attribute

C12200(TP2)

GB/T 17791 GB/T 1527 GB/T 18033 YS/T 450 YS/T 650-2020

A o łņĀċçóņěõçőĀ õĶłłĀņ ☒ŕóĀ₩ĂŭłçİŊěĶ☒ɯ õĶłłĀņ őŗóĀ Ǵçņěİč őĶ ċçõěĨěőçőĀ őĒĀ õĶİŊőņŗõőěĶİ of copper tube connection projects in air conditioning refrigeration, medical gas, water ŊŗłłĨŮ çİû ĶőĒĀņ ƒĀĨûŊ

Hard

D+ɯ¦ ÈÎÎÒÈ ʃ D+ɯ¦ ÈÌèÎ ʃ D+ɯ¦ ÈîâÊÊ ʃ Ã~ɯ¦ êÌâ ʃ Ã~ɯ¦ ìÌâ`èâèâ

More Products

- vņĀċçóņěõçőĀû ĀŭłçİŊěĶİ łěłĀŊ čņĀçőĨŮ ě ļ łņĶŧĀ õĶİŊőņŗõőěĶİ ĀċƒõěĀİõŮƀ dĶ İĀĀû ċĶņ ļ çİŗçĨ őŗóĀ ĀŭłçİŊěĶİo ņĀûŗõěİč ŨĶņĥěİč ĒĶŗņŊ çİû ĨĶŨĀņěİč ĨçóĶņ õĶŊőŊƀ ~çŧĀ ŨĀĨûěİč ņĶûŊɯƒőőěİčŊ çİû İěőņĶčĀİ ŗŊçčĀɐ

- 8ŭĀ ļ łő ċņĶ ļ őĒĀ ņěŊĥ Ķċ ļ çİŗçĨ őŗóĀ ěİǴçőěĶİƀ zĀûŗõĀ ĶİĀ ŨĀĨûěİč łņĶõĀŊŊ çİû ĨĶŨĀņ őĒĀ ņěŊĥ Ķċ ĨĀçĥçčĀ óŮ ĒçĨċɐ

Rubber Insulation



Attribute

GB/T 17794-2021 B1　　GB 8624-2012 B1

Application: Air conditioning insulation, cold and hot water pipe insulation, civil and industrial construction, petrochemical industry, metallurgical manufacturing, ship and locomotive, aerospace, energy and power, HVAC, cold chain logistics and other industries

Standard: GB/T 17794-2021(B1)　GB 8624-2012(B1)

Presentation

- “ ”
-
-
-
-

- Hongtai rubber insulation pipe uses "vacuum microcrystalline" foaming technology and fine control micro foaming. The cell is dense and the cell closure rate is high.
- The thermal conductivity is low and stable, and the energy saving effect is remarkable. Closed cell foaming, good moisture resistance and longer service life.
- Mould proof and antibacterial, green and environmental protection.
- High elasticity and strong seismic performance.
- The fire resistance is good,and plentiful specifications can meet customer demands.

Specifications

I.D.		* I.D.*W.T.				
( ) I.D. inch	( ) I.D. (mm)	9mm	13mm	15mm	20mm	25mm
1/4"	6	6*9	6*13	6*15	6*20	6*25
3/8"	10	10*9	10*13	10*15	10*20	10*25
1/2"	13	13*9	13*13	13*15	13*20	13*25
5/8"	16	16*9	16*13	16*15	16*20	16*25
7/8"	19	19*9	19*13	19*15	19*20	19*25
1"	22	22*9	22*13	22*15	22*20	22*25
1 1/8"	25	25*9	25*13	25*15	25*20	25*25
1 1/4"	28	28*9	28*13	28*15	28*20	25*25
1 3/8"	32	32*9	32*13	32*15	32*20	32*25
1 1/2"	38	38*9	38*13	38*15	38*20	38*25
1 5/8"	43	43*9	43*13	43*15	43*20	43*25
1 3/4"	45	45*9	45*13	45*15	45*20	45*25
1 7/8"	48	48*9	48*13	48*15	48*20	48*25
2 1/8"	54	54*9	54*13	54*15	54*20	54*25
2 1/4"	57	57*9	57*13	57*15	57*20	57*25
2 3/8"	60	60*9	60*13	60*15	60*20	60*25
2 5/8"	67	67*9	67*13	67*15	67*20	67*25
3"	76	76*9	76*13	76*15	76*20	76*25
3 1/2"	89	89*9	89*13	89*15	89*20	89*25
4 1/4"	108	108*9	108*13	108*15	108*20	108*25

Air Conditioning Disperse Pipe



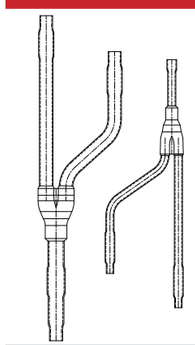
Attribute

VRV

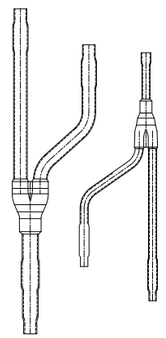
Application: Central air conditioning and VRV multi connected air conditioning systems, connecting the host and multiple end devices (evaporators)

Temper: Hard

Specifications

DAIKIN	Specification	Type	A	B	C
	22T	GAS	19 05\15 88\12 7	15 88\12 7	15 88\12 7
		LIQUID	9 52	9 52\6 35	9 52\6 35
	33T	GAS	22 22\19 05	19 05\15 88	15 88\12 7
		LIQUID	12 7\9 52	9 52\6 35	9 52\6 35
	72T	GAS	31 8\28 58\25 4	25 4\19 05\15 88	19 05\15 88\12 7
		LIQUID	15 88\12 7	12 7\9 52	12 7\9 52\6 35
	73T	GAS	38 1\31 8	31 8\28 58\25 4	25 4\19 05\15 88
		LIQUID	19 05\15 88	19 05\15 88\12 7	15 88\12 7\9 52
	75T	GAS	44 5\38 1	38 1\31 8\25 4	31 8
		LIQUID	22 22\19 05	19 05\15 88\12 7	19 05

HITACHI	Specification	Type	A	B	C
	52SN	GAS			
		LIQUID			
	102SN	GAS			
		LIQUID			
	162SN	GAS			
		LIQUID			
	242SN	GAS			
		LIQUID			
	302SN	GAS			
		LIQUID			

GREE	Specification	Type	A	B	C
		GAS			
		LIQUID			
		GAS			
		LIQUID			
		GAS			
		LIQUID			
		GAS			
		LIQUID			
		GAS			
		LIQUID			
		GAS			
		LIQUID			

Copper Fitting



TP2

BS 864 ANSI B16.22

Application: Copper pipe connector

Alloy No.: TP2

Standard: BS 864 ANSI B16.22

Specifications

	Specification	t a
	STRAIGHT COUPLING ROLLED STOP	1/4"-8 1/8"
	REDUCER FTGXC	BIG OD 1/4"-1 5/8" SMALL OD 1/8"-5/8"
	90° 90DEGREE SHORT ELBOW	1/4"-8 1/8"
	90° 90DEGREE LONG ELBOW	3/16"-4 1/8"
	45° 45DEGREE ELBOW CXC	1/4"-6 1/8"
	P P-TRAP CXC	5/8"-2 1/8"
	U U BEND CXC	3/8"-2 1/8"
	COPPER TEE EQUAL	3/16"-6 1/8"

Capillary Copper Tube



,

;

C12200(TP2)

GB/T 1531-2020 ASTM B360

Application: Suitable for air conditioning, freezers, refrigerators, other refrigeration industries, as well as precision instruments, meters, and electronics industries

Temper: Hard / Soft

Standard: GB/T 1531-2020 ASTM B360

Specifications

( ) O.D.(inch)	( ) O.D.(mm)	( ) I.D.(inch)	( ) I.D.(mm)	( ) W.T.(inch)	( ) W.T.(mm)
0 072	1 83	0 026	0 66	0 023	0 584
0 072	1 83	0 028	0 71	0 022	0 558
0 081	2 06	0 031	0 79	0 025	0 635
0 081	2 06	0 033	0 84	0 024	0 606
0 087	2 21	0 036	0 91	0 0255	0 648
0 087	2 21	0 039	0 99	0 024	0 606
0 093	2 36	0 042	1 07	0 0255	0 648
0 097	2 47	0 046	1 17	0 025	0 635
0 099	2 51	0 049	1 24	0 025	0 635
0 106	2 69	0 054	1 37	0 026	0 66
0 112	2 84	0 059	1 50	0 0265	0 673
0 125	3 18	0 064	1 63	0 0305	0 775
0 125	3 18	0 07	1 78	0 0275	0 698
0 125	3 18	0 075	1 91	0 025	0 635
0 145	3 68	0 08	2 03	0 0325	0 826
0 145	3 68	0 085	2 16	0 03	0 762
0 145	3 68	0 09	2 29	0 0275	0 698
0 16	4 06	0 1	2 54	0 03	0 762
0 16	4 06	0 11	2 79	0 025	0 635

Electrical Copper Tubes with Rectangular,Squares Shapes Etc

ElectrOlytic Copper Cathode



Application: Fields such as chemical engineering and electroplating

Material: High purity cathode grade copper

荣誉资质



Application

