

**ELSEWEDY
ELECTRIC**

COPPER TUBES

PRODUCT CATALOGUE

WORLD CLASS COPPER TUBE MANUFACTURER

ENGINEERED IN COPPER
BUILT ON TRUST



**SUPERIOR
HEAT TRANSFER**



**HIGH PRESSURE
PERFORMANCE**



**PRECISION
ENGINEERED**



About **ELSEWEDY ELECTRIC**

We are a global leader that has evolved from a local manufacturer of electrical products into a giant provider of integrated infrastructure solutions, delivering complex EPC turnkey projects and exporting a wide range of high-end products to over 100 countries.

We drive sustainable energy transition and smart development across regions, committed to environmental responsibility and future-focused solutions.



85+
Years Of Evolution



21K
Employees



34
Production Facilities



60
Operation Countries



70%
Age Below 40



20%
Engineers



5.7B\$
Revenue



100
Export Countries

ELSEWEDY ELECTRIC OPERATE IN SIX KEY BUSINESS SECTORS



**WIRE, CABLE &
ACCESSORIES**



**ELECTRICAL
PRODUCTS**



**ENGINEERING &
CONSTRUCTION**



**DIGITAL
SOLUTIONS**



**INFRASTRUCTURE
INVESTMENTS**



**BUILDING
SOLUTIONS**

Global Presence

34 PRODUCTION FACILITIES

60 OPERATION COUNTRIES

100 EXPORTING COUNTRIES



| FACTORIES



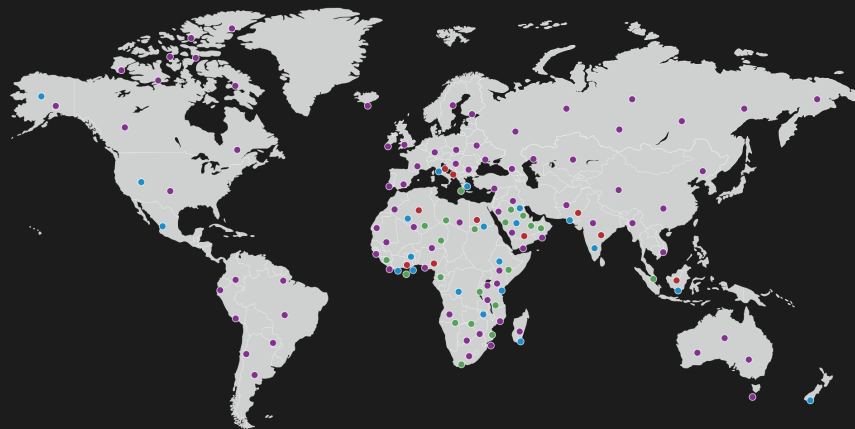
| OFFICES



| PROJECTS



| EXPORTS



About ELSEWEDY ELECTRIC BUILDING SOLUTIONS

The trading arm of Elsewedy Electric Group, delivers advanced Heavy Equipment, MEP, and Integrated Smart Solutions with a focus on performance and reliability.

Backed by a diversified portfolio and strong global partnerships, we provide tailored, end-to-end solutions that meet international standards and support evolving client needs.

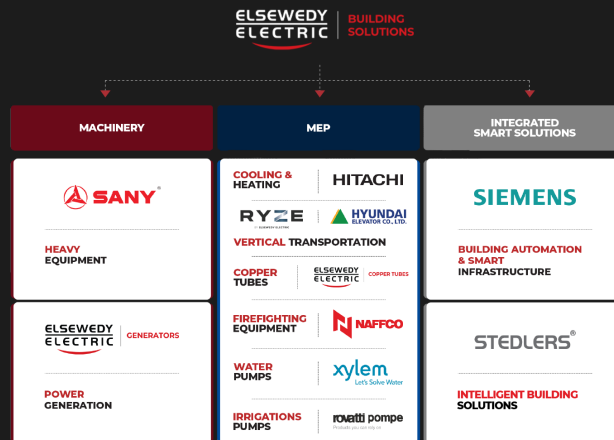
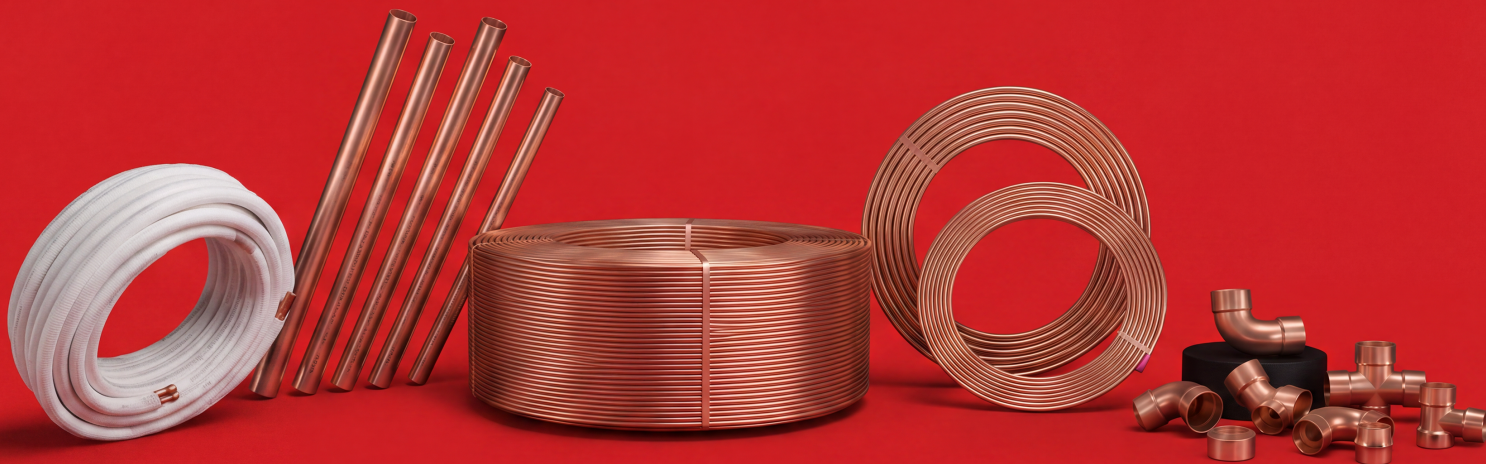


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Copper Tubes Portfolio



PREMIUM
QUALITY



ADVANCED
MANUFACTURE



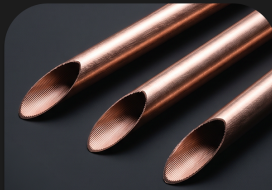
GLOBAL
STANDARDS



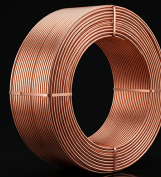
EFFICIENT COOLING
& HEAT SOLUTIONS



RELIABLE
PERFORMANCE



Inner-Grooved
Tube



Level Wound
Coil (LWC)



PE Insulated
Copper Coil



Pancake
Coil



Straight
Tube



EE Copper Tubes
Insulation

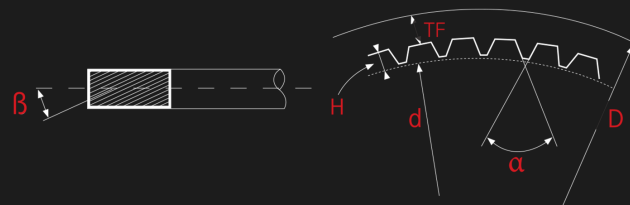


Copper Endfeed
Fittings

Inner-Grooved Tube

inner-grooved tubes have internal grooves that enhanced the amount of the heat transferred through the refrigerant thereby improving the energy efficiency of air conditioning systems.

technical features: high precision dimensions. high thermal efficiency provides higher effectiveness in cooling systems. lightweight with minimal internal residue.



- D** : Outer Diameter
- TF** : Thickness of the Bottom Wall
- H** : Groove Depth
- α** : Groove Angle
- β** : Helix Angle
- d** : Inner Diameter at Groove Tip

Specifications for reference

Outer Diameter (D)	Bottom Wall Thickness (TF)	Groove Depth (H)	Groove Angle (α)	Helix Angle (β)	Number of Grooves	Unit Weight (g/m)
5.00	0.19-0.23	0.12-0.16	35-45	16-20	40	32-36
7.00	0.21-0.27	0.10-0.15	20-56	15-18	60-65	46.5-60
9.52	0.28-0.30	0.14-0.20	18-53	15-21	60-72	78.5-92
12.7	0.33-0.39	0.17-0.23	45-58	16-20	65	139-143

**IGT with different specification & sizes is workable in accordance with the customer's request



Level Wound Coil (LWC)

Premium Copper Tubes manufactured by high-tech production equipment and experienced engineers. The copper tubes are of purity, used in air conditioning systems and heat exchanges with outstanding features:

Material : copper content (Cu):minimum of 99.95%,
Phosphorus concentration (P): 0.015% - 0.04%

Specifications for reference	Outer Diameter		Wall Thickness (mm)											
	mm	inch	0.27	0.31	0.35	0.41	0.51	0.56	0.61	0.71	0.81	0.91	1.00	1.20
	4.00					●	●	●	●	●	●			
	4.76	3/16"				●	●	●	●	●	●			
	6.00					●	●	●	●	●	●			
	6.35	1/4"	●	●	●	●	●	●	●	●	●	●	●	
	7.00		●	●	●	●	●	●	●	●	●	●	●	
	7.94	5/16"	●	●	●	●	●	●	●	●	●	●	●	
	9.52	3/8"	●	●	●	●	●	●	●	●	●	●	●	●
	10.00					●	●	●	●	●	●	●	●	●
	12.00					●	●	●	●	●	●	●	●	●
	12.70	1/2"		●	●	●	●	●	●	●	●	●	●	●
	15.00					●	●	●	●	●	●	●	●	●
	15.88	5/8"					●	●	●	●	●	●	●	●
	19.05	3/4"									●	●	●	●
	22.22	7/8"										●	●	●

**LWC with different wall thickness is workable in accordance with the customer's request

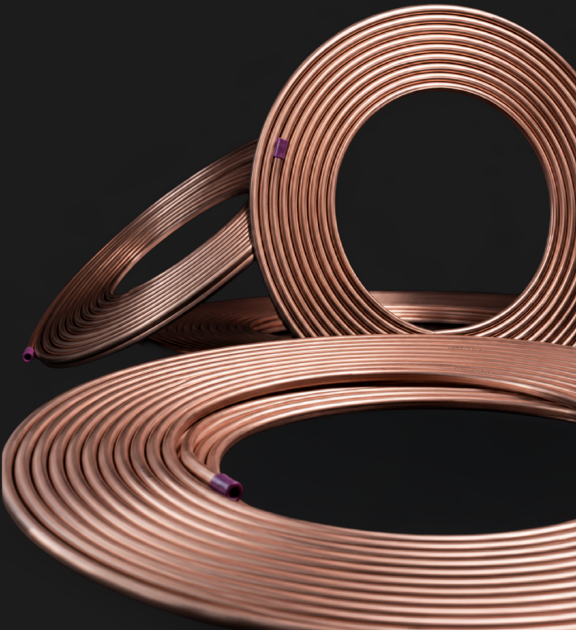


Pancake Coil

- Technical Features: Bright surface, high precision dimensions. Easy to install. Suitable for use with high-pressure refrigerants R410A, R32
- Common tube lengths: 15m, 30m 45m, 50m.

Outer Diameter		Wall Thickness (mm)												
mm	inch	0.41	0.46	0.51	0.56	0.61	0.66	0.71	0.76	0.81	0.91	1.00	1.10	1.20
4.76	3/16"	●	●	●	●	●	●	●	●	●				
6.35	1/4"	●	●	●	●	●	●	●	●	●	●	●		
7.94	5/16"			●	●	●	●	●	●	●	●	●		
9.52	3/8"			●	●	●	●	●	●	●	●	●		
12.70	1/2"			●	●	●	●	●	●	●	●	●	●	●
15.88	5/8"				●	●	●	●	●	●	●	●	●	●
19.05	3/4"					●	●	●	●	●	●	●	●	●
22.22	7/8"							●	●	●	●	●	●	●
25.40	1"									●	●	●	●	●
28.58	1 1/8"										●	●	●	●

**PC with wall thickness above 1.20 mm is workable in accordance with customer's request



Straight Tube

- Technical Features: Bright surface, high precision dimensions.
Easy to weld and install.

			Wall Thickness (mm)																		
			0.41	0.51	0.56	0.61	0.71	0.81	0.91	1.00	1.10	1.14	1.2	1.27	1.4	1.43	1.5	1.8	2.0		
Specifications for reference	Outer Diameter		(H O Hard/Soft Annealed)																		
	mm	inch	H O																		
	4.76	3/16"	H O	●	●	●	●	●	●												
	6.35	1/4"	H O		●	●	●	●	●	●	●										
	7.94	5/16"	H O		●	●	●	●	●	●	●										
	9.52	3/8"	H O		●	●	●	●	●	●	●										
	12.70	1/2"	H O		●	●	●	●	●	●	●										
	15.88	5/8"	H O				●	●	●	●	●		●	●							
	19.05	3/4"	H O					●	●	●	●	●	●	●							
	22.22	7/8"	H O					●	●	●	●	●	●	●	●						
	25.40	1"	H O					●	●	●	●	●	●	●	●						
	28.58	1 1/8"	H O					●	●	●	●	●	●	●	●	●	●				
	31.75	1 1/4"	H O					●	●	●	●	●	●	●	●	●	●	●			
	34.93	1 3/8"	H O					●	●	●	●	●	●	●	●	●	●	●	●		
	38.10	1 1/2"	H O						●	●	●	●	●	●	●	●	●	●	●		
41.28	1 5/8"	H O							●	●	●	●	●	●	●	●	●	●			

** ST with wall thickness from 2.00 mm to 3.50 mm is workable in accordance with customer's request



PE Insulated Copper Coil

Energy-saving and environmentally friendly with advanced technology
The insulation material used in the production of PE insulated copper coil is high-quality cross-linked polyethylene, expanded appropriately to form a microcellular crystal network with a closed-cell structure. The thin polyethylene layer bonded on the outside helps protect and enhance the efficiency of the insulation layer. The closed-cell microcellular structure & the thin polyethylene outer layer form an essential protective layer against harsh environments, ensuring the performance of the copper tube in outdoor conditions when installed in heating, cooling, and air conditioning systems. The superior features of Elsewedy Electric Copper Tubes including durable operation, combined with high-performance insulation, significantly save energy for users. The PE insulated copper Coil product is ideal for industrial applications with high performance and competitive market prices.

- Advantages:
- Energy saving
 - Ensures good performance in corrosive and harsh environments
 - High mechanical pressure resistance
 - Simple and time-saving installation process
 - Operating temperature range from -80°C to 110°C

Material: Copper content (Cu): minimum of 99.95%, Phosphorus concentration (P): 0.015% - 0.04%.

Specification	Unit	Inner layer	Outer layer	Standard
Apparent density	g/cm ³	0.033	0.035	JIS K 7222
Tensile Strength	N/cm ²	18.2	18.3	JIS K 6767
Water Absorption	g/100cm ²	0.31	0.30	JIS A 9511
Thermal Conductivity	W/(m.k)	0.035	0.036	JIS A 1412
Thickness shrinkage: - At 120 +/- 5 °C - At 70 +/- 5 °C	%	3.8 3.4	3.5 3.2	JIS A 9511
Moisture permeability coefficient	ng/(m ² .s.Pa)	15	14	JIS 7225
Working temperature	°C	from -80 °C to 110 °C		



Elsewedy Electric Copper Tubes **Insulation**

The product features advanced technology with superior performance:

- Absolute energy savings
- High pressure resistance
- Safe operating system
- Reduces noise during machine operation
- Durable with good elasticity
- Environmentally friendly with low VOC (Volatile Organic Compounds) levels and high dust resistance
- Low thermal conductivity: ≤ 0.036 at 0°C , ≤ 0.040 at 40°C , demonstrating excellent insulation properties, especially at high temperatures, which is crucial for high-quality insulating foam products



Key Properties

General

Material
Basic colour
Cell structure
Density (kg/m³)

Service temperature

Min service temperature
Max service temperature

Thermal conductivity

K-value (W/m.K)

Water vapour behavior

Water vapour permeability
Water vapour resistance facto
water absorption

Fire behavior

Fire performance

Low oxygen index (LOI)

Health

Environment

Ozone resistance
UV resistance
Mold resistance

Other technical data

Sound Reduction (AF)
Flexibility
Heat stability (% Shrinkage)
@220°F (104°C) x 7 days

Value/Assessment

Elastomeric insulation, NBR/PVC Based
Black
Completely closed cell
40 to 60

-50°C
+105 °C

0°C 20°C 40°C
0.033 0.035 0.037

$\leq 19 \times 10^{-11}$ g(m.s.Pa)
 $\mu \geq 10.000$
 $\leq 2.8\%$ (by weight)
 $\leq 0.04\%$ (by volume)

Class O
Class V-0
No flaming droplet when burning
Very Good

Fibre and formaldehyde free
Low VOCs

Very good
Very good
No growth
Zero ODP and GWP

33 dB (19 mm)
Excellent
 $\leq 10\%$

Test method/Standard

ASTM D1667
For other color, please contact technical department

Under -50 °C, contact with technical department
Above +105 °C, contact with technical department

ASTM C 177
ASTM C 518

ASTM E 96
DIN EN 13469
ASTM D 1056
ASTM C 209

BS 476 Part 6 and 7
ASTM UL 94

ISO 4589

UL 281B

ASTM D 1149
ASTM D 1171
ASTM C 1338

ASTM C 534

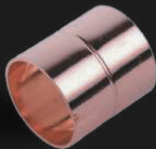
Copper Endfeed Fittings



45° Elbow CxC

*OD: Outer Diameter

OD (inch)	OD (mm)	OD (inch)	OD (mm)	OD (inch)	OD (mm)
1/4"	6.35	3/4"	19.05	1 1/4"	31.75
3/8"	9.52	7/8"	22.22	1 3/8"	34.93
1/2"	12.70	1"	25.40	1 1/2"	38.10
5/8"	15.88	1 1/8"	28.58	1 5/8"	41.28

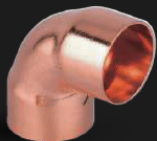


Coupling-Rolled Stop CxC

*OD: Outer Diameter

OD (inch)	OD (mm)	OD (inch)	OD (mm)	OD (inch)	OD (mm)
1/4"	6.35	3/4"	19.05	1 1/4"	31.75
3/8"	9.52	7/8"	22.22	1 3/8"	34.93
1/2"	12.70	1"	25.40	1 1/2"	38.10
5/8"	15.88	1 1/8"	28.58	1 5/8"	41.28

Copper Endfeed Fittings



90° Elbow CxC

*OD: Outer Diameter

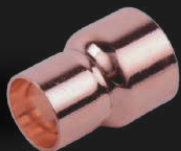
OD (inch)	OD (mm)	OD (inch)	OD (mm)	OD (inch)	OD (mm)
1/4"	6.35	3/4"	19.05	1 1/4"	31.75
3/8"	9.52	7/8"	22.22	1 3/8"	34.93
1/2"	12.70	1"	25.40	1 1/2"	38.10
5/8"	15.88	1 1/8"	28.58	1 5/8"	41.28



Equal Tee CxCxC

OD (inch)	OD (mm)	OD (inch)	OD (mm)	OD (inch)	OD (mm)
1/4"	6.35	3/4"	19.05	1 1/4"	31.75
3/8"	9.52	7/8"	22.22	1 3/8"	34.93
1/2"	12.70	1"	25.40	1 1/2"	38.10
5/8"	15.88	1 1/8"	28.58	1 5/8"	41.28

Copper Endfeed Fittings



Coupling Reducing CxC

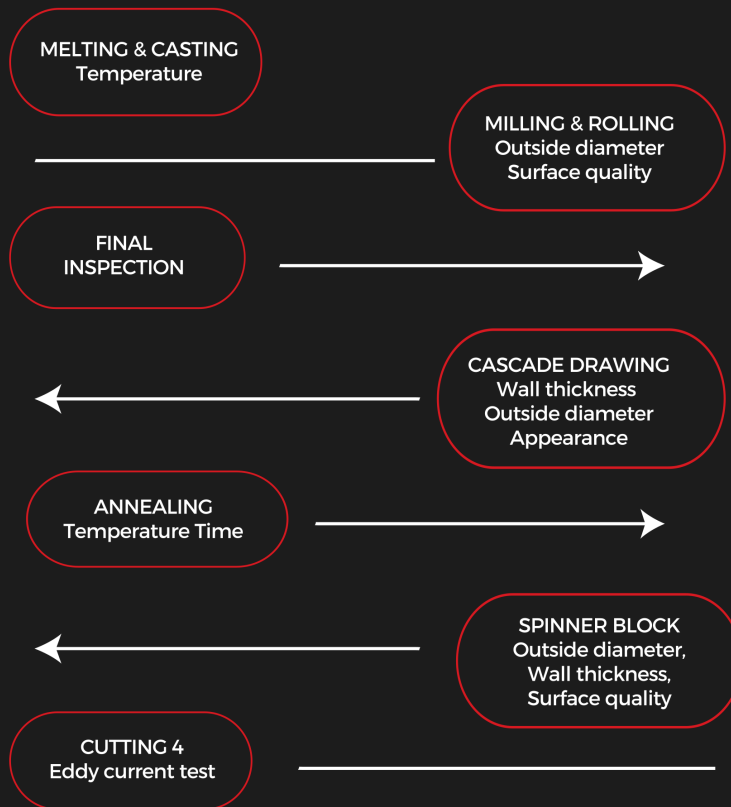
*OD: Outer Diameter

3/8" x 1/4"	9.52 x 6.35	1" x 3/8"	25.40 x 9.52	1 1/2" x 5/8"	38.10 x 15.88
1/2" x 1/4"	12.70 x 6.35	1" x 1/2"	25.40 x 12.70	1 1/2" x 3/4"	38.10 x 19.05
1/2" x 3/8"	12.70 x 9.52	1" x 5/8"	25.40 x 15.88	1 1/2" x 1"	38.10 x 25.40
5/8" x 1/4"	15.88 x 6.35	1" x 3/4"	25.40 x 19.05	1 1/2" x 1 1/4"	38.10 x 31.75
5/8" x 3/8"	15.88 x 9.52	1 1/8" x 5/8"	28.58 x 15.88	1 3/8" x 5/8"	34.93 x 15.88
5/8" x 1/2"	15.88 x 12.70	1 1/8" x 7/8"	28.58 x 22.22	1 3/8" x 7/8"	34.93 x 22.22
3/4" x 1/4"	19.05 x 6.35	1 1/4" x 1/2"	31.75 x 12.70	1 3/8" x 1 1/8"	34.93 x 28.58
3/4" x 3/8"	19.05 x 9.52	1 1/4" x 5/8"	31.75 x 15.88	1 5/8" x 5/8"	41.28 x 15.88
3/4" x 5/8"	19.05 x 15.88	1 1/4" x 3/4"	31.75 x 19.05	1 5/8" x 7/8"	41.28 x 22.22
7/8" x 1/2"	22.22 x 12.70	1 1/4" x 1"	31.75 x 25.40	1 5/8" x 1 1/8"	41.28 x 28.58
7/8" x 5/8"	22.22 x 15.88	1 1/2" x 1/2"	38.10 x 12.70	1 5/8" x 1 3/8"	41.28 x 34.93

Quality Checking Method

LAB

- Chemical Composition
- Elongation & Tensile Strength
- Hardness
- Grain size
- Flaring
- Clean Residual
- Eddy Current Test



Quality Management

Elsewedy Electric Copper Tubes's high-tech copper tube production process is closely linked to strict quality control procedures applied continuously throughout the production stages. With a top-notch quality orientation, Elsewedy Electric Copper Tubes has achieved international certifications for copper tube product quality, including the Japanese Industrial Standard JIS H3300:2018, the American Industrial Standard ASTM B280/B68/B88/B743/B75, European standard EN12735/EN1057/EN12449, the Australian Industrial Standard AS/NZS 1571, the ISO 9001:2015 quality management system, and UL certification.

Detection Project

Copper hardness testing

Tensile strength and elongation properties testing

Grain size testing

Copper Tube chemical composition testing

Inner-tube impurities testing

Copper tube defects & oxygen content testing

Crack-tube testing

Durability testing when the tube is put into

Oil content analyzer

Testing Equipments

Vicker hardness tester HV5

Pulling Vector

Metallographic Microscope

Spectrometer SPECTROMAX

Inner-tube cleanlines machinery

Eddy current tester

Bending flaring tube

Pressure tester

OCMA-300 HORIBA



Diameter / Wall thickness
tolerance comply to ASTM B280

Soft annealed copper coil	Outer Diameter		Diameter Tolerance	Wall thickness	Wall thickness Tolerance
	mm	inch	+/- mm	mm	+/- mm
	6.35	1/4"	0.051	0.76	0.08
	7.94	5/16"	0.051	0.81	0.08
	9.52	3/8"	0.051	0.81	0.08
	12.70	1/2"	0.051	0.81	0.08
	15.88	5/8"	0.051	0.89	0.11
	19.05	3/4"	0.064	0.89	0.11

Diameter / Wall thickness
tolerance comply to ASTM B280

Straight tube

Outer Diameter		Diameter Tolerance	Wall thickness	Wall thickness Tolerance
mm	inch	+/- mm	mm	+/- mm
9.52	3/8"	0.025	0.76	0.08
12.70	1/2"	0.025	0.89	0.09
15.88	5/8"	0.025	1.02	0.10
19.05	3/4"	0.025	1.07	0.11
22.22	7/8"	0.025	1.14	0.11
28.58	1 1/8"	0.038	1.27	0.13
34.93	1 3/8"	0.038	1.40	0.14
41.28	1 5/8"	0.051	1.52	0.15



Diameter / Wall thickness
tolerance comply to JIS H3300

unit: mm

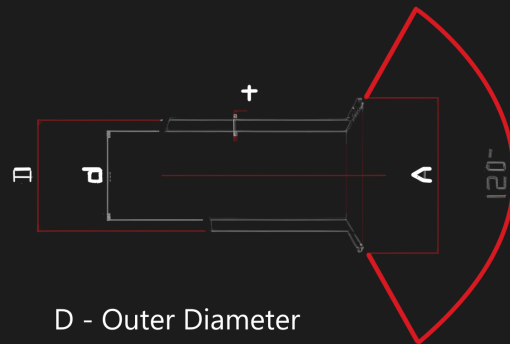
Diameter	Diameter Tolerance	Wall thickness				
		From 0.25 to 0.4	Over 0.4 to 0.6	Over 0.6 to 0.8	Over 0.8 to 1.4	Over 1.4 to 2
From 4 to 15	0.08	0.06	0.07	0.10	0.13	0.15
Over 15 to 25	0.09	0.07	0.08	0.10	0.13	0.18
Over 25 to 50	0.12		0.09	0.11	0.15	0.18

Diameter / Wall thickness tolerance comply to JIS H3300

Hardness

unit: mm

Type	Hardness
O/OL	40 - 70
1/2H	70 - 100
H	>100



D - Outer Diameter
d - Inner Diameter
 $t = (D-d)/2$ - Wall thickness
A = 1.3*D or A = 1.4*D

Diameter / Wall thickness
tolerance comply to JIS H3300

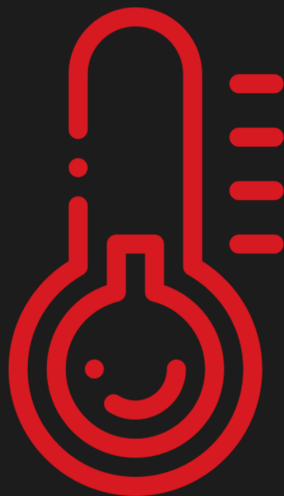
Flaring ratio

unit: mm

Outer diameter & wall thickness

Alloy	Diameter below 20mm with wall thickness over 0.5mm	Diameter from 20mm to 100mm OR thickness below 0.5mm
C1220	1.4	1.3

**Working
pressure**



Outer Diameter x Wall Thickness (mm)		Soft Annealed / Temperature				unit: bar*
		40°C	70°C	100°C	120°C	Hard / Temperature From 40°C ~ 120°C
6.35	0.51	71	60	58	57	122
6.35	0.56	79	67	64	63	135
6.35	0.61	86	73	70	69	148
6.35	0.71	102	86	83	81	174
6.35	0.76	110	93	89	88	188
6.35	0.81	118	100	96	94	202
9.52	0.51	46	39	38	37	79
9.52	0.56	51	43	42	41	88
9.52	0.61	56	47	46	45	96
9.52	0.66	61	52	50	49	104
9.52	0.71	66	56	54	52	113
9.52	0.76	71	60	58	56	121
9.52	0.81	76	64	62	60	130
9.52	1.00	95	85	77	76	163
12.7	0.51	34	29	28	27	59
12.7	0.56	38	32	31	30	65
12.7	0.61	41	35	34	33	71
12.7	0.66	45	38	37	36	77
12.7	0.71	48	41	40	39	83
12.7	0.76	52	44	42	42	89
12.7	0.81	56	47	45	44	95
12.7	1.00	70	59	57	56	119
15.88	0.51	27	23	22	22	47
15.88	0.56	30	26	25	24	52
15.88	0.61	33	28	27	26	56
15.88	0.66	36	30	29	28	61
15.88	0.71	38	33	31	31	66

Working
pressure

Pressure Unit:

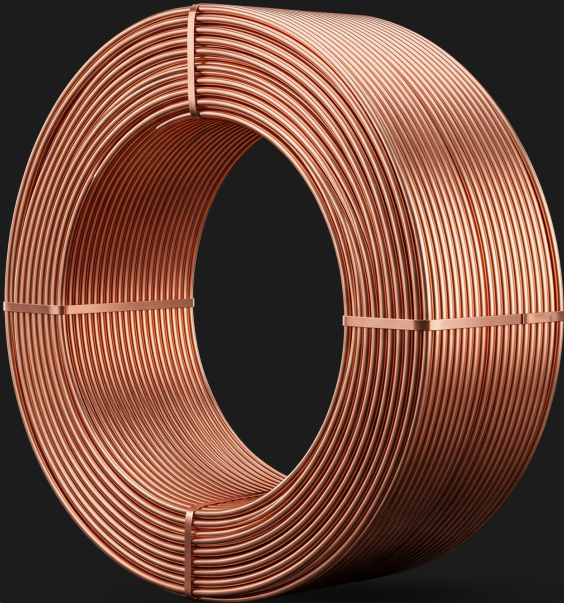
1 bar ~ 14.5 Psi

1 bar = 0.1 Mpa

Pressure basis: based on the physical properties of copper material according to the standards of copper tubes such as JIS H3300 (Japan), ASTM (USA), AS (Australia) and EN (Europe).

Outer Diameter x Wall Thickness (mm)		Soft Annealed / Temperature				Hard / Temperature
		40°C	70°C	100°C	120°C	From 40°C ~ 121
15.88	0.76	41	35	34	33	71
15.88	0.81	44	37	36	35	76
15.88	0.91	50	42	41	40	85
15.88	1.00	55	47	45	44	94
19.05	0.61	27	23	22	22	47
19.05	0.66	29	25	24	24	51
19.05	0.71	32	27	26	25	55
19.05	0.76	34	29	28	27	59
19.05	0.81	36	31	30	29	63
19.05	0.91	41	35	34	33	71
19.05	1.00	45	39	37	36	78
19.05	1.10	50	43	41	40	86
19.05	1.20	55	47	45	44	94
19.05	1.50	70	59	57	56	119
22.22	0.71	27	23	22	22	47
22.22	0.81	31	26	25	25	53
22.22	0.91	35	30	29	28	60
22.22	1.00	39	33	32	31	66
22.22	1.10	43	36	35	34	73
22.22	1.20	47	40	38	37	80
22.22	1.50	59	50	48	47	101
25.4	0.71	24	20	19	19	41
25.4	0.81	27	23	22	22	46
25.4	0.91	31	26	25	24	52
25.4	1.00	34	29	27	27	58
25.4	1.10	37	32	30	30	64
25.4	1.20	41	35	33	32	70
25.4	1.50	51	44	42	41	88
28.58	0.71	21	18	17	17	36
28.58	0.81	24	20	20	19	41

Working
pressure



Outer Diameter x Wall Thickness (mm)		Soft Annealed / Temperature				Hard / Temperature From 40°C ~ 120°C
		40°C	70°C	100°C	120°C	
28.58	0.91	27	23	22	21	46
28.58	1.00	30	25	24	23	51
28.58	1.10	33	28	27	26	56
28.58	1.20	36	31	29	29	62
28.58	1.27	38	32	31	30	65
28.58	1.50	45	39	37	36	78
31.75	0.81	22	18	18	17	37
31.75	0.91	24	21	20	19	42
31.75	1.00	27	23	22	21	46
31.75	1.10	29	25	24	24	51
31.75	1.20	32	27	26	26	55
31.75	1.50	41	35	33	32	70
34.90	0.91	22	19	18	18	38
34.90	1.00	24	21	20	19	42
34.90	1.10	27	23	22	21	46
34.90	1.20	29	25	24	23	50
34.90	1.40	34	29	28	27	59
34.90	1.50	37	31	30	29	63
34.90	2.00	50	42	41	40	85
41.28	0.91	19	16	15	15	32
41.28	1.00	20	17	17	16	35
41.28	1.10	23	19	18	18	39
41.28	1.20	25	21	20	20	42
41.28	1.43	29	25	24	24	51
41.28	1.50	31	26	25	25	53
41.28	2.00	42	35	34	33	72
44.50	1.20	23	19	19	18	39
44.50	1.40	27	23	21	21	46
44.50	1.50	29	24	23	23	49

Mechanical Properties

Chemical Composition					Mechanical Properties			
Standard	Alloy No	% (Cu+Ag)	P%	Temper	Tensile Strength	Elongation (%)	Hardness	Average Grain size
EN 12449	Cu-DHP/ CW024A	99.9	0.015 - 0.04	R200(O)	Min 200	Min 40	/	/
				H040(OL)	/	/	40-65 HV1	/
				R250(I/2H)	Min 250	15 - 30	/	/
				R290(H)	Min 290	Min 3	/	/
				H095(H)	/	/	95-120 HV1	/
EN 12735-1	Cu-DHP/ CW024A	99.9	0.015 - 0.04	R220(O)	Min 220	Min 40	40 - 70 HV1	/
				R250(I/2H)	Min 250	20 - 30	70 - 100 HV1	/
				R290(H)	Min 290	Min 3	Min 100 HV1	/
EN 12735-2	Cu-DHP/ CW024A	99.9	0.015 - 0.04	R250(I/2H)	Min 250	Min 30	75 - 100 HV1	/
				R290(H)	Min 290	Min 3	Min 100 HV1	/
				Y080	Min 220	Min 40	/	0.015 - 0.04
				Y040(OL)	Min 220	Min 40	/	0.015 - 0.04
				Y035(O)	Min 210	Min 40	/	0.015 - 0.04
ASTM B743	C12200	99.9	0.015 - 0.04	H58	Min 220	/	Min 72 HV1	/
				O50	Min 205	Min 40	Max 69 HV1	Max 0.040
				O60	Min 205	Min 40	Max 60 HV1	Min 0.040

Chemical Composition					Mechanical Properties			
Standard	Alloy No	% (Cu+Ag)	P%	Temper	Tensile Strength	Elongation (%)	Hardness	Average Grain size
ASTM B280	C12200	99.9	0.015 - 0.04	H58	min 250	/	/	/
				O60	min 205	min 40	/	min 0.04
				O50	min 210	min 40	/	0.015 - 0.04
ASTM B68	C12200	99.9	0.015 - 0.04	O60	min210	min 40	/	min 0.04
				O60	min 205	/	max 50 HRF	min 0.04
				O50	min 205	/	max 55 HRF	min 0.025
ASTM B88	C12200	99.9	0.015 - 0.04	H58	min 250	/	min 30 HR30T	/
				H55	250-325	/	30-60 HRF	/
				H58	min 250	/	min 30 HRF	/
				H80	min 310	/	min 55 HRF	/
				O60	min 205	/	max 60 HRF	min 0.04
ASTM B75	C12200	99.9	0.015 - 0.04	O50	min 205	/	max 65 HRF	max 0.04
				H80	min 310	/	/	/
				H	min 315	/	min 55HR30T	/
ASTM B360	C12200	99.9	0.015 - 0.04	1/2H	245 - 325	/	30 - 60 HR30T	max 0.04
				OL	min 205	min 40	max 55 HRF	max 0.04
				O	min 205	min 40	max 50 HRF	0.025 - 0.06
EN 1057	Cu-DHP/ CW024A	99.9	0.015 - 0.04	R220 (O)	min 220	min 40	40 - 70 HV5	/
				R250 (I/2H)	min 250	min 30	70 - 100 HV5	/
				R290 (H)	min 290	min 3	min 100 HV5	/
				Hard draw	/	/	min 100 HV	/
				Bendable	/	/	80 - 100 HV	/
AS 1432		99.9	0.015 - 0.04	Annealed	/	/	max 70 HV	/
				H	/	/	min 100 HV	/
				1/2 H	/	/	75 - 100 HV	/
AS NZS 1571		99.9	0.015 - 0.04	O	/	/	max 75 HV	max 0.065

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BEHIND EVERY
CONNECTION**

THANK YOU



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