

Anadolu Bakır A.Ş.



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Since 2004, Anadolu Bakır A.S. has become the leading – followed company in HVAC-R industry both for Turkey and abroad with their high quality products and perfectionist approach to customer's need.

Anadolu Bakır A.S. meets customer's need by producing and supplying a rich product portfolio under their brand OTTOCOOL such as:

- Rubber Insulated Copper Tubes
- PE Insulated Copper Tubes
- "Ready to Use" PE Insulated Double Size Copper Tubes Montage Kit,
- Straight Copper Tubes
- Pancake Copper Tubes
- Lwc Copper Tubes
- Medical Tubes





LEVEL WOUND COIL (LWC) COPPER TUBE

The LWC Copper Tube (Cu-Dhp 99,9%) is mostly applied to air conditioning, refrigeration and general engineering applications. LWC Copper Tube is produced according to the EN 12735-1 standard and it's also comply with the ASTM B280 specifications.

PRODUCT RANGE																
W.T. o.d.	mm	0.3	0.35	0.4	0.45	0.5	0.55	0.6	0.63	0.7	0.76	0.8	0.9	1	1.2	
	mm	inch	0.012	0.014	0.016	0.018	0.020	0.022	0.024	0.025	0.028	0.030	0.031	0.035	0.039	0.047
4	...			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
4.76	3/16			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
6.35	1/4		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
7.93	5/16	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
9.52	3/8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
12	...		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
12.7	1.2		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
15.87	5.8			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
16	...					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
18	...							✓	✓	✓	✓	✓	✓	✓	✓	✓
19.05	3/4								✓	✓	✓	✓	✓	✓	✓	✓

General Specifications							
Sizes		Material	Temper		Coil Weight	Form of packing	
Outside Diameter (mm) 4 - 19,05	Wall Thickness (mm) 0,28 - 1,10	Cu:99,90% Phosphorous: 0,015-0,040%	Light Annealed (O50)	Soft Annealed (O60)	80 - 250 kg	With Bobbin	Bobbin-less
		C12200 DHP (ASTM B68, B75, B88)				Cardboard & Wooden Reels	Cardboard
		Cu - DHP (EN 12735, EN 12449)	Also Can be supplied in Hard Drawn Temper	Stacked on pallets and shrink wrapped			



STRAIGHT COPPER TUBE

The straight copper tubes are used for air conditioning & refrigeration industries, electrical industries and sanitary purposes. Cu-Dhp 99,9% cooper pipe (EN 12735-1) sealed ends and dehumified, R290 non-annealed and R220 annealed in straight form, high resistance to pitting corrosion.

Soft Straight Copper Tubes

Mechanical properties according to EN 12735-1 for soft copper tubes

Temper	Temper designation	Tensile strength (N/mm ²)	Elongation (%)A5	Hardness HV5 (approximately)
Soft	R220	min.220	40	40-70

Delivery conditions and packaging for soft copper tubes

Temper designation	Outer Diameter (mm)	Wall thickness (mm)	Delivery Condition	Packaging
R220	5-108	0,5-2,5	up to 6 m, straight length	Wooden Box

Hard Straight Copper Tubes

Mechanical properties according to EN 12735-1 for hard copper tubes

Temper	Temper designation	Tensile strength (N/mm ²)	Elongation (%)A5	Hardness HV5 (approximately)
Hard	R290	min.290	3	min.100

Delivery conditions and packaging for soft copper tubes

Temper designation	Outer Diameter (mm)	Wall thickness (mm)	Delivery Condition	Packaging
R290	5-108	0,5-2,5	up to 6 m, straight length	In bundles wrapped in plastic foil



PANCAKE COPPER TUBE COIL

The Pancake Copper Tube (Cu-Dhp 99,9% cooper pipe (EN 12735-1) end- capped, R220 annealed in coil form, high resistance to pitting corrosion) is mainly applied to air conditioning and refrigeration industry and installation. According the EN standard the Pancake tube has good bending properties for usage in utility supplies such as plumbing installations, gas transport networks, air conditioning systems and refrigerant piping. These products are supplied in the annealed form. All coils are cleaned and capped to keep contaminants from entering the tube. Then they are individually labeled, shrink wrapped and boxed in cardboard cartons for ease of handling and distribution.

PANCAKE COPPER TUBES

Mechanical properties according to EN 12735-1 for pancake copper tubes

Temper	Temper designation	Tensile strength (N/mm ²)	Elongation (%)A5	Hardness HV5 (approximately)
Soft	R220	min.220	40	40-70

Delivery conditions and packaging for soft copper tubes

Temper designation	Outer Diameter (mm)	Wall thickness (mm)	Delivery Condition	Packaging
R220	5-22	0,5-2,0	up to 50m coils	Cardboard boxes on pallettes



PE-INSULATED COPPER TUBE

Suitable for air conditioning, refrigeration and industrial systems. Cu-Dhp 99,9% cooper pipe insulated with an expanded polyethylene tube, closed cell and an external LDPE foil. Maximum Fire Safety with self-extinguishing DIN 4102-B1, SBI BL S1D0. Nontoxic gases and resistant to external chemical agents and ultra-violet rays.



Sustainability
Fully recyclable



Specificities
Unique aesthetical appearance
Excellent mechanical strength



Fire
Excellent flame extinguishing properties
SBI BL S1 D0



Health
Produced without (H)CFC
Complies to REACH
Complies to VOC (Volatile organic components)
Complies to RoHS (Restriction of Hazardous Substances)



Certificates
Compliant with the German EnEV
CE system 3 certified



Service temperatures
Wide service temperature range
Minimum -80°C
Maximum 95°C (EN 14707)



Additional information
Standart Thickness : 6,10,13,19

TECHNICAL SPECS OF COPPER PIPE

Chemical Composition	99,9% Cu-Dhp
Conformity	EN 12735-1
Unit Breaking Load	Min. R=220n/mm ²
Elongation%	A% min = 45%
Physical Condition	Annealed
Internal Surface	Glossy, perfectly clean, conforming ASTM B-280 legislation
Heat Conduction at 20°C	364W/mK
Condition	Sealed ends, dehumified



Water

Closed cell structure for good water vapor barrier
Water vapor resistance μ -value ≥ 5000 (EN13469)
Water absorption WS05 (EN 13472)



Insulation

Semi-flexible thermoplastic foam
Excellent insulation properties
Lambda 0.040 W/mK at 40°C (EN ISO 8497)
Lambda 0.036 W/mK at 0°C (EN ISO 8497)



Loading

One Truck Can be loaded between 40,000-60,000 meters regarding insulation size



TWIN INSULATED COPPER TUBE

Pipe Diameter inch	1/4 + 3/8	1/4 + 1/2	1/4 + 1/2	1/4 + 5/8	3/8 + 5/8	3/8 + 3/4	1/2 + 3/4
Pipe Thickness mm	0,8+0,8	0,8 + 0,8	0,8 + 0,9	0,8 + 1	0,8 + 1	0,8 + 1	0,8 + 1
Insulation Thickness mm	6-9-13-19	6-9-13-19	6-9-13-19	6-9-13-19	6-9-13-19	6-9-13-19	6-9-13-19
Operation Pressure bar	134-89	134-72	134-84	134-62	90-62	90-52	72-52
Coil Length meter	15-50	15-50	15-50	15-50	15-50	15-50	15-50



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Pipe Diameter inch	1/4 + 3/8	1/4 + 1/2	1/4 + 1/2	1/4 + 5/8	3/8 + 5/8	3/8 + 3/4	1/2 + 3/4
Pipe Thickness mm	0,8+0,8	0,8 + 0,8	0,8 + 0,9	0,8 + 1	0,8 + 1	0,8 + 1	0,8 + 1
Insulation Thickness mm	6-9-13-19	6-9-13-19	6-9-13-19	6-9-13-19	6-9-13-19	6-9-13-19	6-9-13-19
Operation Pressure bar	134-89	134-72	134-84	134-62	90-62	90-52	72-52
Coil Length meter	15-50	15-50	15-50	15-50	15-50	15-50	15-50



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Pipe Thickness mm	0,8+0,8	0,8 + 0,8	0,8 + 0,9	0,8 + 1	0,8 + 1	0,8 + 1	0,8 + 1
Insulation Thickness mm	6-9-13-19	6-9-13-19	6-9-13-19	6-9-13-19	6-9-13-19	6-9-13-19	6-9-13-19
Operation Pressure bar	134-89	134-72	134-84	134-62	90-62	90-52	72-52
Coil Length meter	15-50	15-50	15-50	15-50	15-50	15-50	15-50



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Pipe Diameter inch	1/4 + 3/8	1/4 + 1/2	1/4 + 1/2	1/4 + 5/8	3/8 + 5/8	3/8 + 3/4	1/2 + 3/4
Pipe Thickness mm	0,8+0,8	0,8 + 0,8	0,8 + 0,9	0,8 + 1	0,8 + 1	0,8 + 1	0,8 + 1
Insulation Thickness mm	6-9-13-19	6-9-13-19	6-9-13-19	6-9-13-19	6-9-13-19	6-9-13-19	6-9-13-19
Operation Pressure bar	134-89	134-72	134-84	134-62	90-62	90-52	72-52
Coil Length meter	15-50	15-50	15-50	15-50	15-50	15-50	15-50



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Additional information

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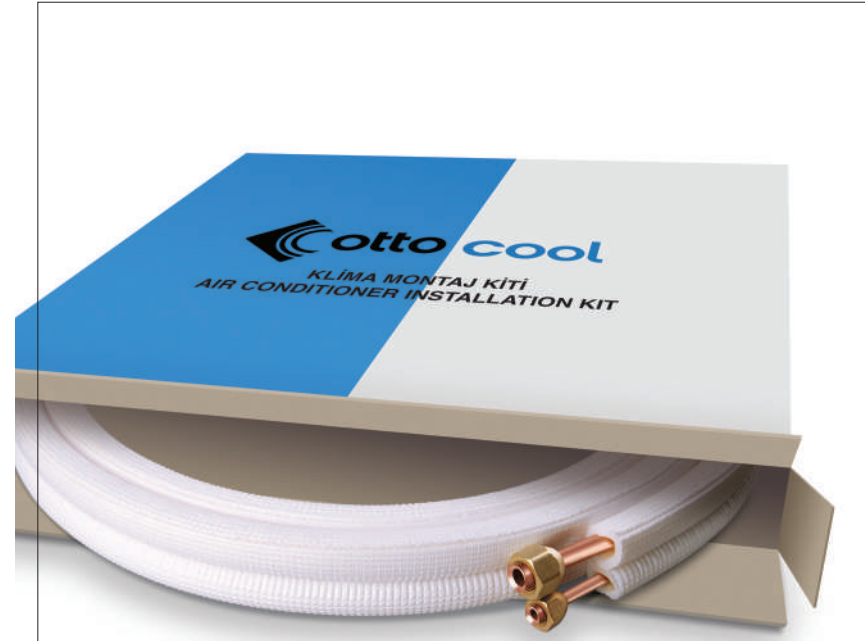
Loading

One Truck Can be loaded between 40.000-60.000 meters regarding insulation size



RUBBER FOAM INSULATED COPPER TUBE

Pipe Diameter inch	1/4	3/8	1/2	1/2	5/8	3/4	7/8
Pipe Thickness mm	0,8	0,8	0,81	0,9	1	1	1,2
Insulation Thickness mm	6/9/13	6/9/13	6/9/13	6/9/13	6/9/13	6/9/13	6/9/13
Operation Pressure bar	134	95	72	84	70	58	52
Coil Length meter	15-50	15-50	15-50	15-50	15-50	15-50	15-50



PE - INSULATED COPPER TUBE - MONTAGE KIT

Ideal solution for air conditioning and refrigeration systems: Ottocool "Ready to Use" Montage Kit. Closed-cell expanded Polyethylene. Gets a Maximum saving with low coefficient of thermal conductivity (0,036W/mK). Maximum Fire Safety with self-extinguishing CL. 1 - DIN4102 B2. White external extruded PE-Layer, nontoxic gases and resistant to external chemical agents and ultra-violet rays.

TECHNICAL SPECS OF PE INSULATION

Heat Conductivity Coefficient DIN 52613 and 52612	0,036 W/mK (0°C)
Water Vapor Diffusion Resistance Coefficient (μ)	>5000
Fire Classification DIN 4102-B2	Class 1
Insulation density	35 kg/m ³
Operating Temperature Range	-80°C / +95°C

TECHNICAL SPECS OF COPPER PIPE

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Conformity	EN 12735-1
Unit Breaking Load	Min. R=220n/mm ²
Elongation%	A% min = 45%
Physical Condition	Annealed
Internal Surface	Glossy, perfectly clean, conforming ASTM B-280 legislation
Heat Conduction at 20°C	364W/mK
Condition	Sealed ends, dehumidified



INSULATED COPPER TUBE - MONTAGE KIT VRF SYSTEM

Pipe Diameter inch	1/4 + 3/8	1/4 + 1/2	1/4 + 5/8	3/8 + 5/8	3/8 + 3/4	1/2 + 3/4
Pipe Thickness mm	0,8+0,8	0,8+0,8	0,8+1,0	0,8+1,0	0,8+1,0	0,8+1,0
Insulation Thickness mm	6+6	6+6	6+6	6+6	6+6	6+6
Operation Pressure bar	94-89	94-72	94-62	89-62	89-52	72-52
Coil Length meter	3-4-5-7-10	3-4-5-7-10	3-4-5-7-10	3-4-5-7-10	3-4-5-7-10	3-4-5-7-10

INSULATED COPPER TUBE - MONTAGE KIT SPLIT SYSTEM

Pipe Diameter inch	1/4 + 3/8	1/4 + 1/2	1/4 + 5/8	3/8 + 5/8	3/8 + 3/4	1/2 + 3/4
Pipe Thickness mm	0,7+0,7	0,7+0,7	0,7+0,8	0,7+0,8	0,7+0,9	0,7+0,9
Insulation Thickness mm	6+6	6+6	6+6	6+6	6+6	6+6
Operation Pressure bar	94-61	94-58	94-52	61-52	61-47	58-47
Coil Length meter	3-4-5-7-10	3-4-5-7-10	3-4-5-7-10	3-4-5-7-10	3-4-5-7-10	3-4-5-7-10

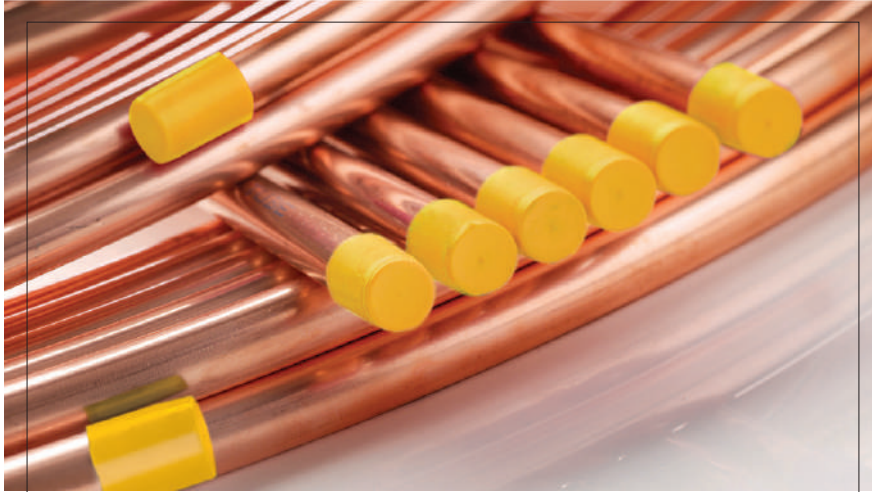


COPPER FITTINGS

Copper Fittings provide ideal solutions for Health Care Facilities Gas and Vacuum Systems and the Compressed Gas Association, Pamphlet with the Standards ANSI/ASME B16.22 and EN 12541.

Metrical diameter: Sizes varies between 6mm and 133mm
 Inch diameter: Sizes varies between 1/4" and 4.1/8"





MEDICAL COPPER TUBES

The Medical Copper Tube (Cu-Dhp 99,9%) is suitable for medical gas system, gas mixture, air system and vacuum systems as well as anesthetic evacuation gases in accordance with the corresponding standards. Medical Copper Tube is subjected to a rigorous internal cleaning process according to the technical specifications provided by the EN 13348.

Medical Copper Tube According to EN 13348

Diameter (mm)	Wall Thickness (mm)	Packing	Diameter (mm)	Wall Thickness (mm)	Packing
8	1,00		28	1,50	
10	0,60		35	1,00	
10	1,00	straight	35	1,50	straight
12	0,60	lengths	42	1,00	lengths
12	1,00	of 5m	42	1,50	of 5m
15	0,70		54	1,50	
15	1,00		54	2,00	
22	1,00		76	1,50	
22	1,50		76	2,00	
28	1,00		108	2,50	



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