



TECHNICAL DATA - SPECIFICATION SHEET - AIRCOPIPE

INSULATED COPPER PIPE FOR AIR CONDITIONING AND REFRIGERATION SINGLE / DOUBLE COILS AND FLARE SETS

Copper Tube

1

Material

Seamless round copper tubes made of high purity of **Cu-DHP** (CW204A) grade copper, meeting the requirements of EN12735-1 and designed for the application of air conditioning and refrigeration systems with all new refrigerants as **R410a**, **R22**, **R32**, which comply with European Pressure Directive (PED) **2014/68/EU**

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Mechanical Properties

Temper	Tensile Strength Rm (Mpa)	Elongation A (%)	Hardness (HV)	Grain Size (mm)
R220 (Annealed)	> 220	> 40	40 - 70	0.02 - 0.04
R250 (Half Hard)	> 250	> 30	75 - 100	n/a
R290 (Hard)	> 290	> 3	> 100	n/a

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Dimensions and Max Working Pressure

Outer Diameter inch	Wall Thickness mm	Length meter	Formation	M.W.P. bar
1/4"	0,80	25	Coil	118
3/8"	0,80	25	Coil	83
1/2"	0,80	25	Coil	61
5/8"	1,00	25	Coil	59
3/4"	1,00	25	Coil	47
7/8"	1,15	25	Coil	46

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Cleaness

Tube surface is smooth, clean, free from cracks, silvers, scales and other defects
The inner surface is clean, no grease, oxides and dirt

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Eddy Current Testing

All tubes are **100% eddy current tested** before coated with insulation in accordance with EN1971

6

Drift Expansion (Flare set)

The expansion is tested in accordance with EN10234. The outside diameter of tube end shall be expanded by no less than 30% without cracks, breaks or tears visible to the unaided eye for temper of R220 and R250

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Marking

The tube is ink marked the following information every meters

- Trademark (aircopipe)
- Outer diameter and wall thickness (OD X Wall)
- EN standard (EN12735-1)
- Material condition (R220 / R250 / R290)
- Manufacturer's identification (GD/LY)
- Date of production (Year and Month)



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Insulation Tube

1

Material

The insulation made of high quality of **3 layers** polyethylene with high grade of fire retardant meets the highest EU fire class **BL-s1,d0** of EN13501-1+1A. The tough surface is perfect for installation of air conditioning and refrigeration systems.

2

Main Character

Foam Density kg/m ³	Thermal Conductivity	Max Temperature	Fire Resistance	Ecology
30	< 0.04 W/(m*K)	-40°C ~ 110°C	BL,s1,d0	CFC Free

3

Dimensions and Length

Outer Diameter inch	Thickness mm	Length meter	Formation
1/4"	9mm	25	Coil
3/8"	9mm	25	Coil
1/2"	9mm	25	Coil
5/8"	10mm	25	Coil
3/4"	10mm	25	Coil
7/8"	10mm	25	Coil

4

Marking

The tube is ink marked the following information every meters

- Trademark (Aircopipe)
- Product Code (S225 or P2325)
- Fire Level (BL-s1,d0)
- Copper European standard (EN12735-1)
- Manufacturer batch No.