



REFRIGERATION - AIR CONDITIONING



HALCOR



HALCOR

HALCOR is a large-scale modern industrial company with over sixty years of experience in metal processing. It holds a significant position in European and global markets and has four modern plants; three in Greece and one in Bulgaria.

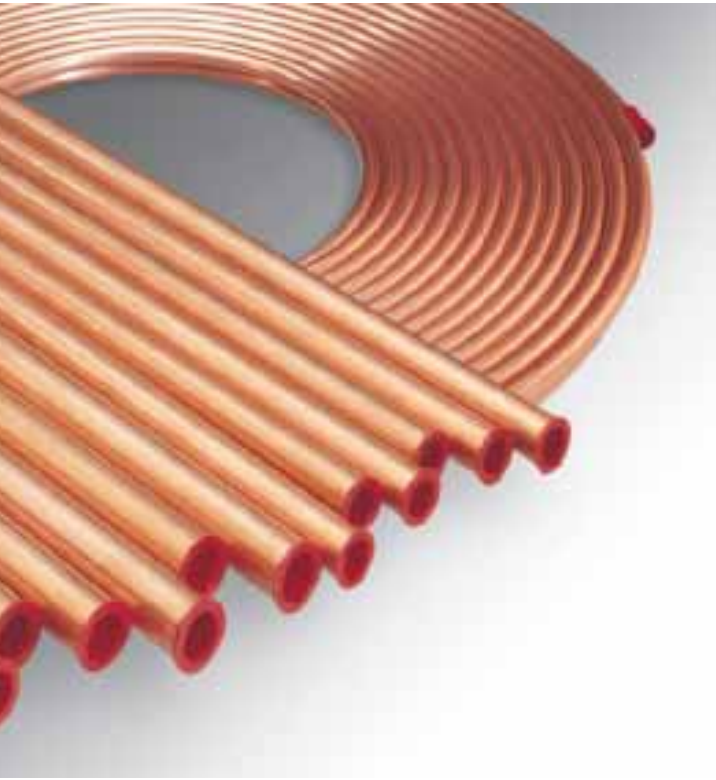
The company is dedicated to achieving high quality. It has ISO 9001:2000 certification, uses state-of-the-art technology and employs highly skilled personnel. Substantial, continual investment in research and know-how allows the company to create innovative new products, which supports its aim of being a market leader.

At the same time, HALCOR is committed to sustained development and environmental protection. As such, its production processes are regulated by an ISO 14001:2004 certified Environmental Management System.

Aiming at the total satisfaction of all of its customers' needs, the company focuses on responding reliably and rapidly to demand. It provides exceptional support for its products, which are distributed to more than fifty countries worldwide. HALCOR combines size, strength and technology to achieve its overall vision of putting metals at man's disposal.







ACR
TALOS[®]
COPPER TUBES

REFRIGERATION
AIR CONDITIONING

Advantages of ACR TALOS[®] copper tubes

The unique properties of high purity copper, make ACR TALOS[®] copper tubes, indispensable for refrigeration installations.

- **High thermal conductivity.**
- **Invariable mechanical properties covering an extensive temperature range.**
- **Chemically inert compared to refrigerants (R134A, R404A, R407C, R410A).**
- **High internal cheek purity.**
- **Smoothly internal surface enhance flow rate.**
- **Excellent weldability, either by hard or half had welding.**
- **Excellent old forming ability.**
- **The same installation may be used either for refrigeration or heating.**

As a result of which ACR TALOS[®] copper tubes create high thermodynamic and operational requirement with ease of installation, all of which result in an overall cost reduction.

MATERIAL

Copper phosphorus deoxidised (DHP-Cu), minimum 99.9% Cu and P = 0.015% - 0.040%.

MECHANICAL PROPERTIES

Tensile strength /mm ²	Yield strength in 0,2%	Elongation 5%
≥ 200 N/mm ²	> 60 N/mm ²	> 40%

SPECIFICATIONS

EN 12735 Part 1-2, ASTM B280/B68/B743, JIS H3300.
All ACR TALOS® copper tubes meet PED 97/23 requirements and the strict German regulation AD 2000/W6 on pressure tanks.

QUALITY MARKS

AENOR, TÜV.

STANDARD DIMENSION ACCORDING TO US STANDARDS (ASTM)

PANCAKES									
Copper tube external diameter	inch	3/16	1/4	5/16	3/8	1/2	5/8	3/4	7/8
	mm	4,76	6,35	7,94	9,52	12,70	15,88	19,05	22,23
Copper tube wall thickness	inch	0,032	0,032	0,032	0,032	0,032	0,039	0,039	0,049
	mm	0,80	0,80	0,80	0,80	0,80	1,00	1,00	1,25
Weight	Kgr/m	0,089	0,124	0,160	0,195	0,266	0,416	0,505	0,733
Maximum permitted working pressure	bar	180	128	100	82	60	60	49	86

STRAIGHT LENGTHS (4 OR 5 METERS)

Copper tube external diameter	inch	3/8	1/2	5/8	3/4	7/8	1 1/8	1 3/8	1 5/8	2 1/8	2 5/8	3 1/8	3 5/8
	mm	9,52	12,70	15,88	19,5	22,23	28,58	34,93	41,28	53,98	66,68	79,38	92,08
Copper tube wall thickness	inch	0,032	0,032	0,039	0,039	0,049	0,049	0,049	0,049	0,065	0,079	0,098	0,098
	mm	0,80	0,80	1,00	1,00	1,25	1,25	1,25	1,25	1,65	2,00	2,50	2,50
Weight	Kgr/m	0,195	0,266	0,416	0,505	0,733	0,955	1,177	1,399	2,414	3,616	5,373	6,261
Maximum permitted working pressure	bar	133	97	97	80	86	66	54	45	46	45	47	40

Customised dimensions are manufactured upon request.

STANDARD DIMENSIONS ACCORDING TO EUROPEAN STANDARDS (EN)

PANCAKES									
Dimensions	mm	6 x 1	8 x 1	10 x 1	12 x 1	15 x 1	18 x 1	22 x 1	28 x 1.50
Weight	Kgr/m	0,140	0,196	0,252	0,308	0,391	0,475	0,587	1,111
Pancakes per carton	pcs.	2 x 35m	1 x 35m	1 x 35m	1 x 35m	1 x 25m	1 x 25m	1 x 25m	1 x 25m

STRAIGHT LENGTHS (5 METERS)

Dimensions	mm	6.0x1.0	8.0x1.0	10.0x1.0	12.0x1.0	15.0x1.0	18.0x1.0	22.0x1.0	28.0x1.5	35.0x1.5	42.0x1.5	54.0x2.0	64.0x2.0	76.1x2.0	88.9x2.0
Weight	Kgr/m	0.140	0.196	0.252	0.308	0.391	0.475	0.587	1.110	1.410	1.700	2.91	3.47	4.14	4.86
5 meter lengths per carton	pcs.	40	40	24	10	12	10	10	10	5	5	4	4	2	1

Customised dimensions are manufactured upon request.

PACKAGING

Straight lengths, in bundles (hard copper tubes) and in wooden boxes (soft copper tubes)
Pancakes-PNC in shrink-wrapped individual plastic bags. Depending on market requirements, they can be placed in cardboard boxes and pallets.



REFRIGERATION AIR CONDITIONING

ACR TALOS® copper tubes for refrigeration units are available in the following types:

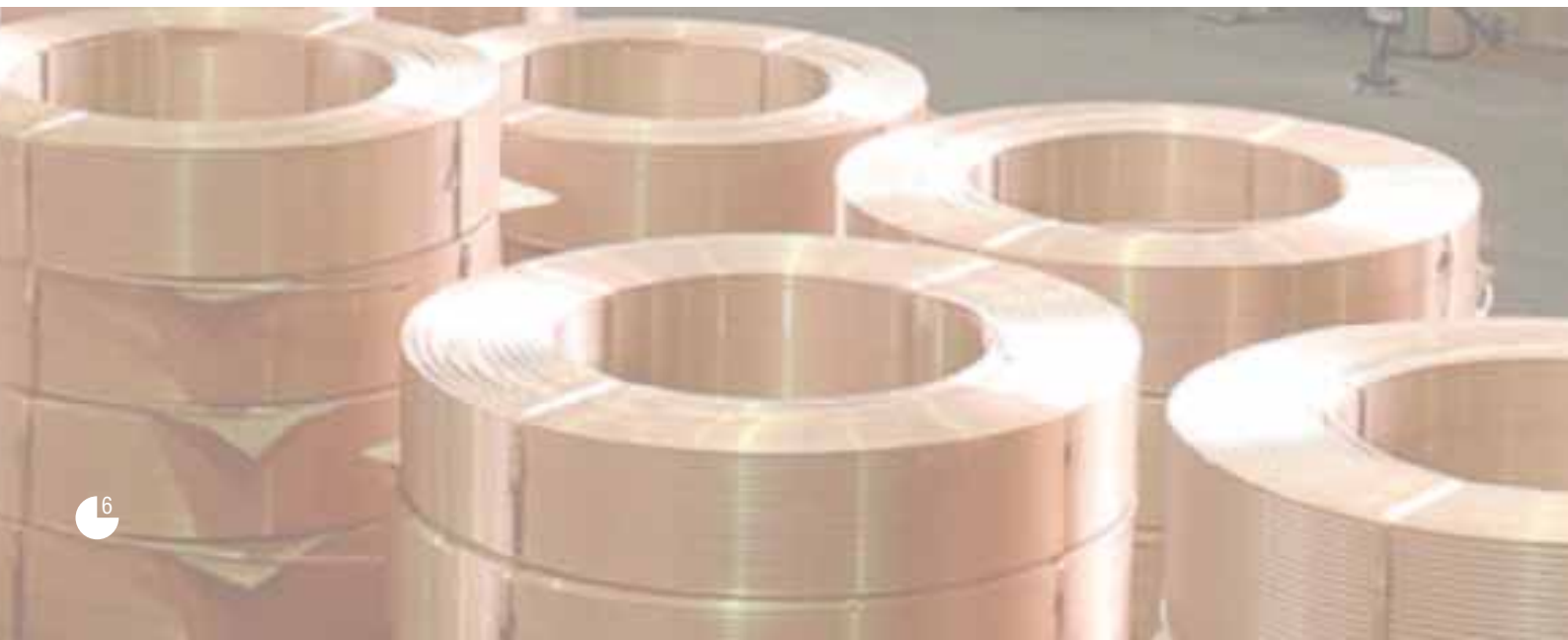
Spools (LWC)

ACR TALOS® copper tubes are available in spools (LWC) with or without central support (hard cardboard). Spool sides may be delivered protected by “flanges” of reinforced corrugated cardboard.

Spools with a “central” reel (CD coils)

Spools with a “central” reel are especially prepared so that they unwind from the center.

They provide significant advantages to the user, such as reduction in packaging materials, unwinding “on the pallet”, greater weights per spool and, therefore, longer production. ACR TALOS® copper tubes do not require special unwinding equipment; they have lower handling costs, reducing machine downtime and enhanced performance.

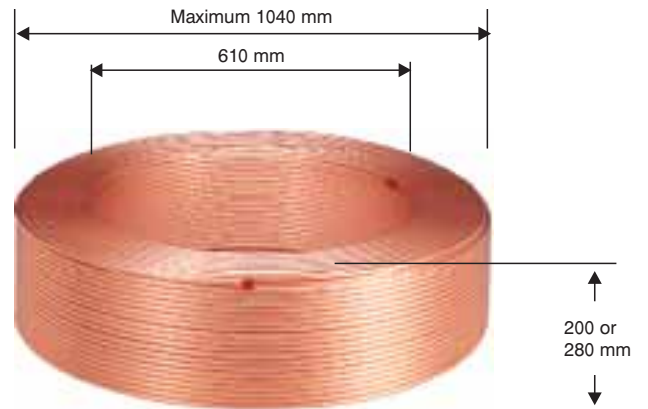


AVAILABLE DIMENSIONS

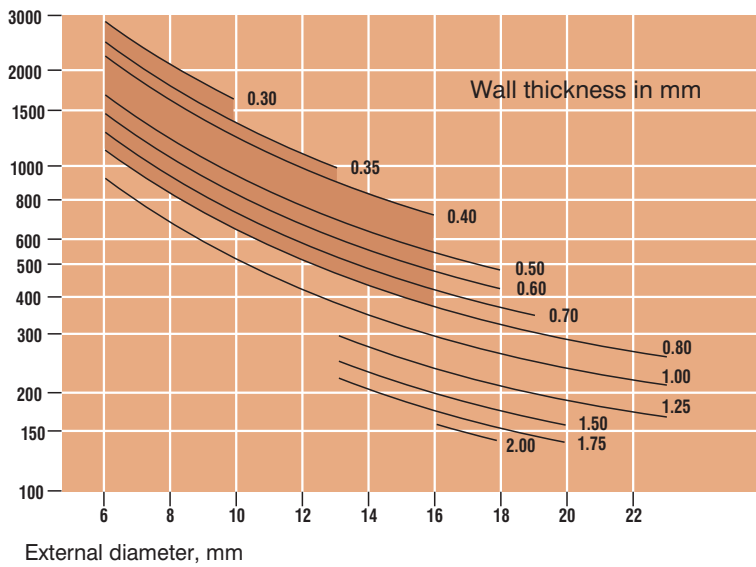
External diameter		Thickness (inch) (mm)							
(inch)	(mm)	0,011 0,28	0,012 0,30	0,014 0,35	0,016 0,41	0,018 0,45	0,020 0,51	0,025 0,635	0,028 0,71
5/16	7,94								
3/8	9,52								
1/2	12,70								
5/8	15,87								

Recommended dimensions for LWC spools

SPOOL (LWC) DIMENSIONS

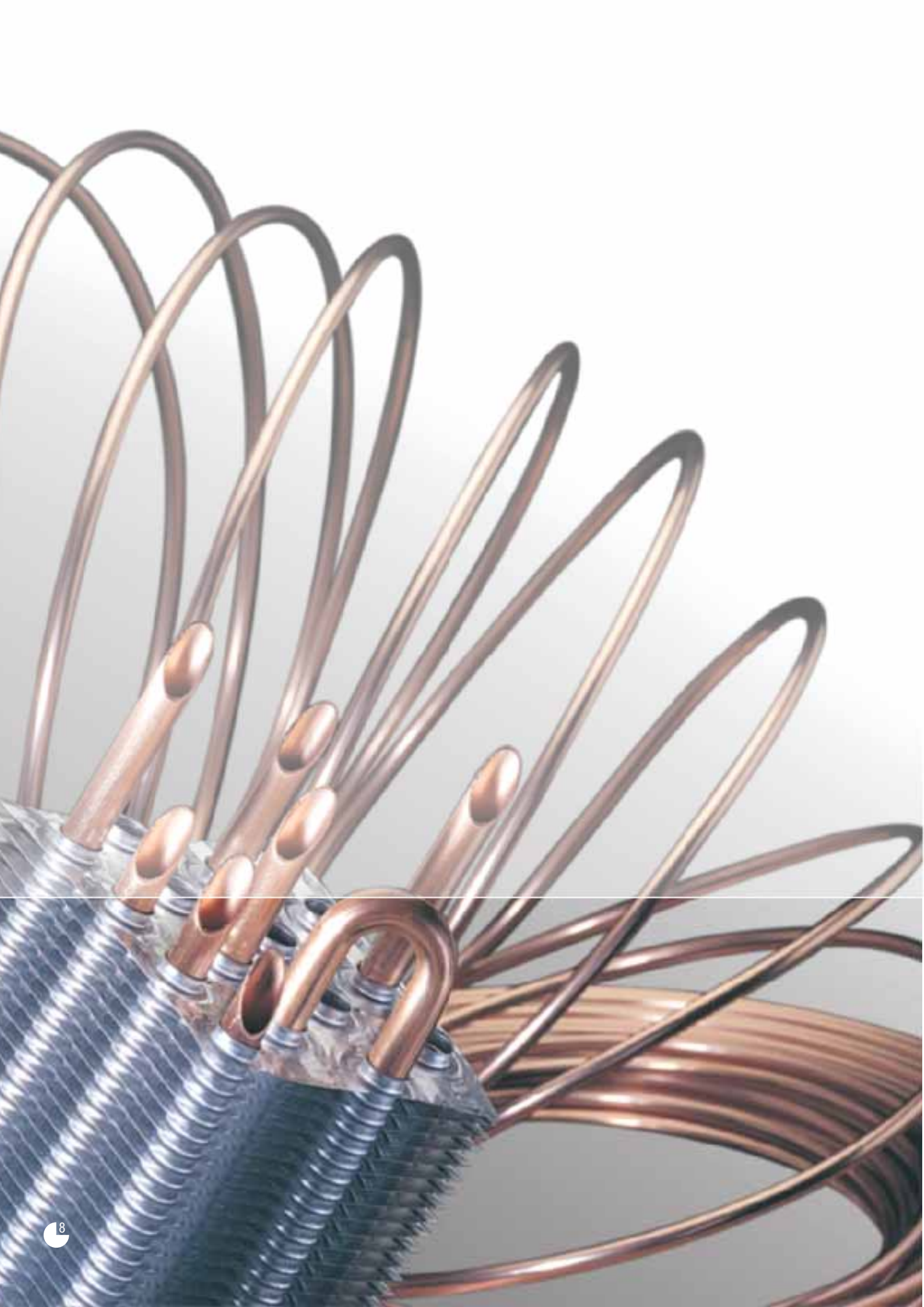


TUBE LENGTH IN METERS (BASED ON LWC SPOOLS OF 130 KGS)



Spool weight: 90 to 230 kg
(Spools of greater weight are available upon request)





INNER GROOVED
ACR
TALOS[®]
COPPER TUBES
HEAT EXCHANGERS

Inner grooved tubes

HALCOR has developed its own standard with regard to the design of new high thermal performance tubes with inner grooves. With these tubes, the thermal performance of refrigeration units is improved, enabling the reduction of the size of these units, whilst reducing the quantity of the refrigeration mixture required.

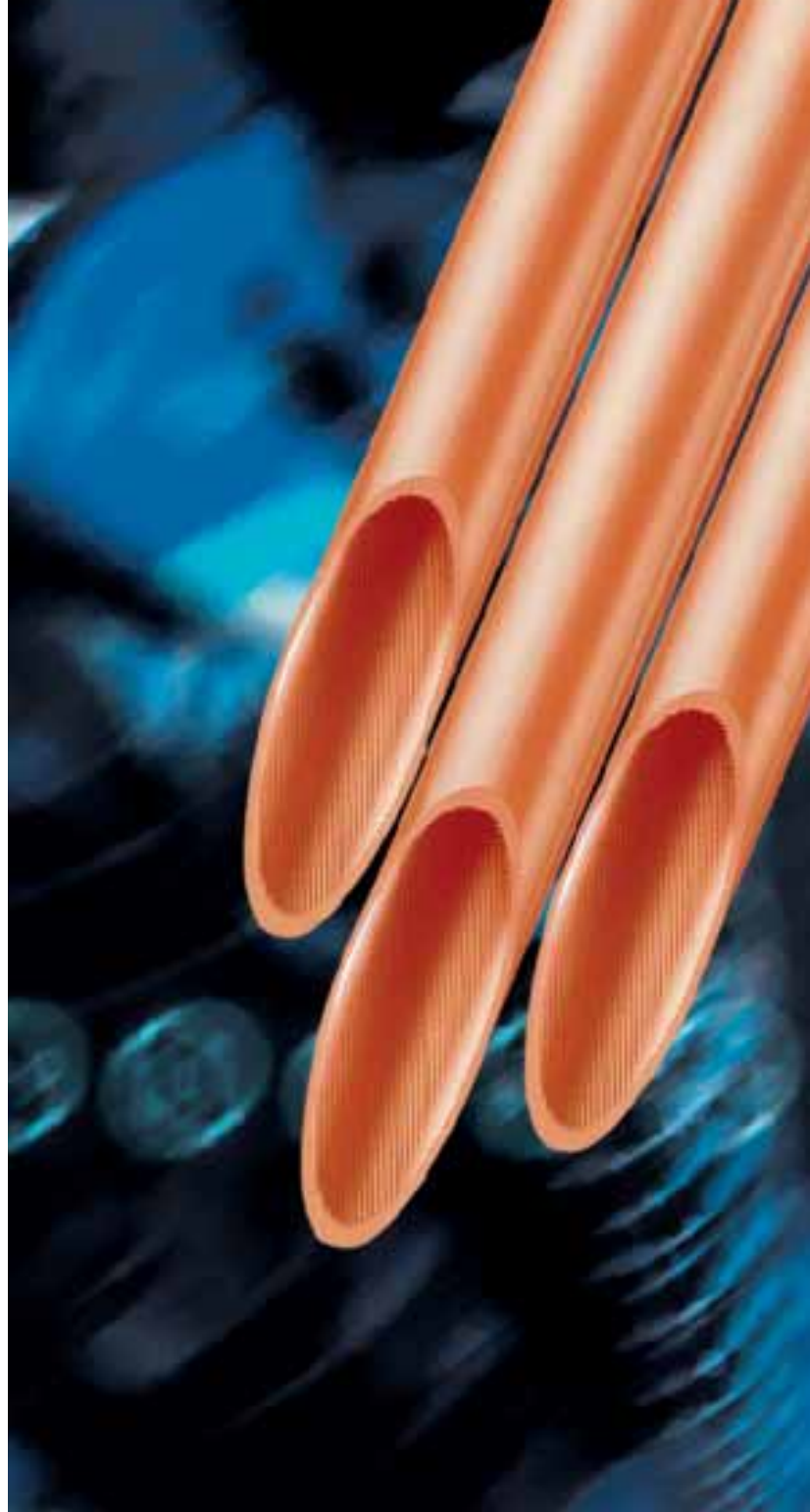
MATERIAL

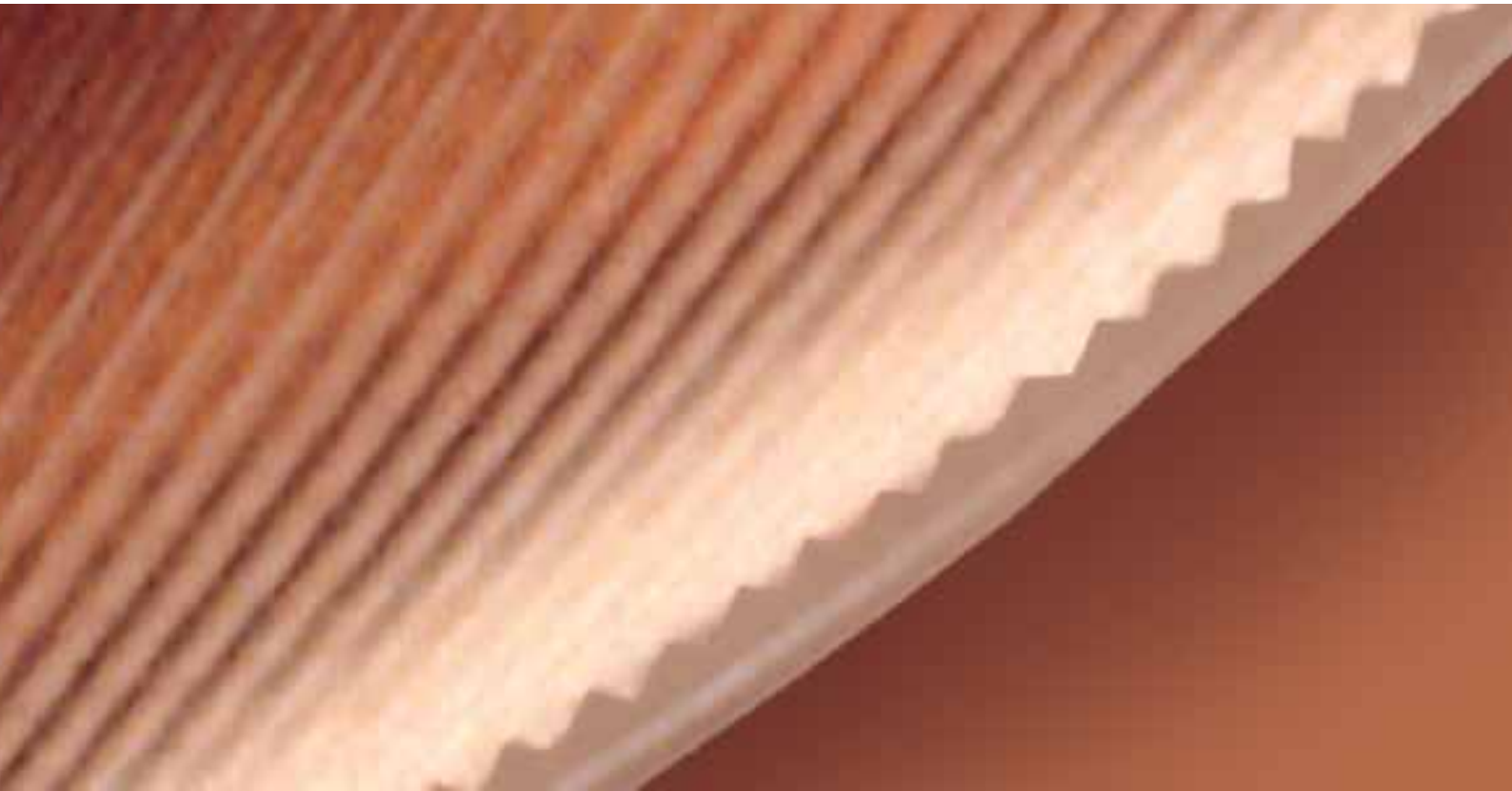
Copper phosphorus deoxidised (DHP-Cu), minimum 99.9% Cu and P = 0.015% - 0.040%.

MATERIAL SPECIFICATIONS

CW024A	EN 1173		
SF-Cu	DIN1787		
C-106	BS 2871	PART 3	TABLE 1
C12200	ASTM B 743		
C1220	JIS H 3300		

TEMPER: Light or fully annealed.





DIMENSIONS

Groove type /HALCOR Code	Nominal size	External diameter (mm)	Internal diameter (mm)	Bottom wall (mm)	Groove depth (mm)	Total wall thickness (mm)	Number of grooves	Lead angle (degrees)	Top angle (degrees)	Unit weight (gr/m)
A-1	9.52 x 0.35	9.52 ± 0.05	8.66 ± 0.05	0.28 ± 0.03	0.15 ± 0.02	0.43 ± 0.05	65	25 ± 2	90	94 ± 2
A-2	9.52 x 0.41	9.52 ± 0.05	8.54 ± 0.05	0.34 ± 0.03	0.15 ± 0.02	0.49 ± 0.05	65	25 ± 2	85	104 ± 2
B-2	7.94 x 0.30	7.94 ± 0.05	7.06 ± 0.03	0.26 ± 0.03	0.18 ± 0.02	0.44 ± 0.05	50	18 ± 2	40	64 ± 2
B-3	8.00 x 0.30	8.00 ± 0.05	7.12 ± 0.03	0.26 ± 0.03	0.18 ± 0.03	0.44 ± 0.05	50	18 ± 2	40	65 ± 2
B-6	9.52 x 0.36	9.52 ± 0.05	8.52 ± 0.03	0.30 ± 0.03	0.20 ± 0.02	0.50 ± 0.05	60	18 ± 2	53	93 ± 2
B-10	9.52 x 0.35	9.52 ± 0.05	8.66 ± 0.03	0.28 ± 0.03	0.15 ± 0.02	0.43 ± 0.05	60	18 ± 2	53	89 ± 2
B-15	7.00 x 0.30	7.00 ± 0.05	6.14 ± 0.03	0.25 ± 0.03	0.18 ± 0.02	0.43 ± 0.05	50	18 ± 2	40	57 ± 2
B-21	12.70 x 0.45	12.70 ± 0.05	11.48 ± 0.05	0.36 ± 0.03	0.25 ± 0.02	0.61 ± 0.05	70	18 ± 2	58	155 ± 2
B-22	12.70 x 0.45	12.70 ± 0.05	11.48 ± 0.05	0.36 ± 0.03	0.25 ± 0.02	0.61 ± 0.05	75	18 ± 2	58	155 ± 2
B-25	12.00 x 0.45	12.00 ± 0.05	10.80 ± 0.05	0.35 ± 0.03	0.25 ± 0.02	0.60 ± 0.05	70	18 ± 2	55	145 ± 2
C-1	9.52 x 0.33	9.52 ± 0.05	8.62 ± 0.05	0.27 ± 0.03	0.18 ± 0.02	0.45 ± 0.05	70	25 ± 2	25	84 ± 2
C-2	9.52 x 0.39	9.52 ± 0.05	8.40 ± 0.05	0.31 ± 0.03	0.25 ± 0.02	0.56 ± 0.05	65	25 ± 2	25	99 ± 2
C-3	8.00 x 0.32	8.00 ± 0.05	7.04 ± 0.03	0.26 ± 0.03	0.22 ± 0.02	0.48 ± 0.05	65	35 ± 1	15	69 ± 2
C-15	7.00 x 0.32	7.00 ± 0.05	6.02 ± 0.03	0.25 ± 0.02	0.24 ± 0.02	0.49 ± 0.04	55	27 ± 1	15	59 ± 2





WATER SUPPLY
HEATING
AIR CONDITIONING
REFRIGERATION
SOLAR SYSTEMS
INDUSTRIAL NETWORKS

Advanced technology that saves energy and protects the environment

- Significant and continuous energy savings.
- Safe network operation.
- Reduction of installation time.
- High resistance to mechanical stress.
- Easy of formability.
- External or embedded installations.
- Resistance to extreme atmospheric conditions.
- 30-year guarantee, covering the quality of manufacture of the copper tube.

TALOS ECUTHERMTM pre-insulated copper tubes are advanced technology products, of high added value and significantly superior in effectiveness, compared to conventional insulation methods. The unique advantages offered by the TALOS ECUTHERMTM copper tubes, such as copper resistance and durability, coupled with high performance pre-insulation (Engineering Foams), result in significant energy savings. With a significantly competitive market price and low installation cost, TALOS ECUTHERMTM copper tubes are easily, the ideal choice for every modern application.

High performance technological product

TALOS ECUTHERMTM copper tubes are insulated with high quality extruded polyethylene foam (PEF), structured in closed-type microcells. The insulation is covered externally by a protective polyethylene sheath of three different types. TALOS ECUTHERMTM copper tubes are available in 25 and 50 m coils, in two types of insulation material of different thickness, depending on the requirements of the construction.

- TALOS ECUTHERMTM PE-X. Insulation with low-density cross-linked PEF without HCFC and fibrous materials, thickness: 6, 9 and 9 mm.
- TALOS ECUTHERMTM PE. Insulation with low-density PEF without HCFC and fibrous materials, thickness: 6, 9 and 13 mm.

The closed-type microcells, combined with the protective sheath, form a solid resistance barrier, that provides all the



necessary technical properties for any kind of application, such as heating, air conditioning, refrigeration and other plumbing applications.

TALOS ECUTHERMTM copper tubes, are manufactured according to the specifications applicable in most EU countries as well as other international specifications in terms of insulation, fire resistance, technical and chemical properties.

TALOS ECUTHERMTM copper tubes have a low λ coefficient, which determines thermal conductivity and an exceptional μ coefficient, which determines resistance to vapour and water diffusion.

TALOS ECUTHERMTM copper tubes meet the requirements of the Uniform European Standard EN 14313 on PEF insulation materials for building and industrial plumbing installations.

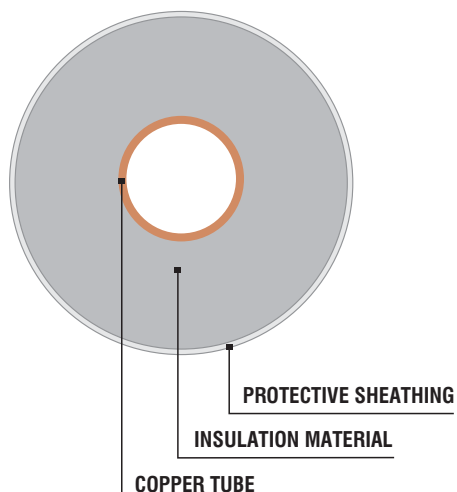


Reliability that only TALOS® copper tubes can provide

TALOS® copper tubes are manufactured according to (a) the Uniform European Standard EN 1057 for use in plumbing installations and (b) the Uniform European Standard EN 12735-1 for use in air conditioning and refrigeration installations. TALOS® copper tubes meet the current requirements, imposed by the new green refrigerants (R 410-A, etc.), adopted by major refrigeration and air conditioning unit manufacturers, both in Greece and abroad.

TALOS® copper tubes have been awarded most major international quality marks and are exported to more than 50 countries, throughout the world. TALOS® copper tubes, with their high quality of manufacture, provide:

- **Unlimited lifetime.**
- **Resistance to pressure, temperature and fire.**
- **Complete network impermeability.**
- **Hygienic, safe, and bacteria-free potable water.**
- **Quality and reliability of installation.**
- **Versatile applications.**
- **Comprehensive range sizes.**
- **Style and space saving.**
- **Low thermal expansion.**



COPPER TUBE MATERIAL

Copper phosphorus deoxidised (DHP-Cu), minimum 99.9% Cu and P = 0.015% - 0.040%

MECHANICAL PROPERTIES

Temper	ELOT EN 1057 Classification	Tensile strength N/mm ²	Minimum elongation A5%
Soft	R-220	>220	>40

SPECIFICATIONS

WATER PIPES: EN 1057: 1996

REFRIGERATION PIPES: EN 12735-1: 2001

QUALITY MARKS

WATER PIPES: RAL/DVGW, BSI, AFNOR, AENOR, NSF, CSTB (Avis Technique)

REFRIGERATION PIPES: AENOR, TÜV.

INSULATION TECHNICAL PROPERTIES

MATERIAL PEF	PE	PE-X
DENSITY ACCORDING TO DIN 53420 ASTM D 1667	30-31 Kg/m ³	30-33 Kg/m ³
THERMAL CONDUCTIVITY COEFFICIENT (λ) ACCORDING TO ASTM C 335	0,039 W/m.K	0,035 W/m.K
VAPOUR-WATER DIFFUSION RESISTANCE COEFFICIENT (μ) ACCORDING TO DIN 52615	≥12.000	≥12.000
WORKING TEMPERATURE	-35°C to +95°C	-80°C to +110°C
FIRE RESISTANCE	CL1, DIN 4102 B2	DIN 4102 B2, BS 476, M1
RESISTANCE TO CHEMICAL AGENTS ACCORDING TO ASTM 543-56 T	Very good	Very good
SOUND ABSORPTION ACCORDING TO DIN 4109 300-2500Hz	≈ 60%	≈ 60%

Values are listed, as obtained under standard laboratory conditions and may be amended, without prior notice.

STANDARD DIMENSIONS ACCORDING TO EN 1057

Copper tube external diameter	mm	6	8	10	12	15	16	18	22
Copper tube wall thickness	mm	0,80	0,80	0,80	1,00	1,00	1,00	1,00	1,00
Overall external diameter with 9mm thick insulation	mm	24	26	28	30	33	34	36	40
Maximum permitted working pressure	bar	137	99	77	104	85	80	70	57

STANDARD DIMENSIONS ACCORDING TO EN 12735-1

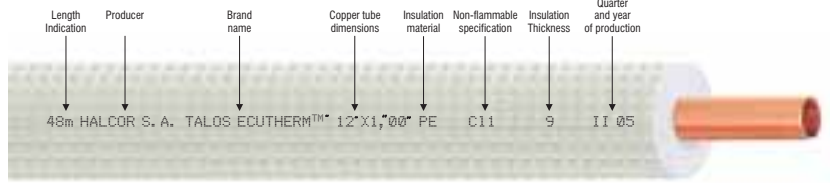
Copper tube external diameter	inch	3/16	1/4	5/16	3/8	1/2	5/8	3/4	7/8
	mm	4,76	6,35	7,94	9,52	12,70	15,87	19,05	22,23
Copper tube wall thickness	mm	0,80	0,80	0,80	0,80	0,80	1,00	1,00	1,14
Overall external diameter with 9mm thick insulation	mm	22,76	24,35	25,94	27,52	30,70	33,87	37,05	40,23
Maximum permitted working pressure	bar	169	186	100	84	63	62	51	48

TALOS ECUTHERM™ copper tubes, are also available in straight lengths of 5m, with half hard copper tube, upon request.

TYPES OF EXTERIOR PROTECTIVE SHEATHING



MARKING



TALOS ECUTHERM™ 1/2" AND 5/8" INDICATIVE CALCULATION OF INSULATION THICKNESS

Air conditioning and refrigeration units, operate in temperatures lower than ambient temperature; therefore, this difference must be compensated by the appropriate insulation thickness, to prevent vapour condensation. The thickness of the insulation (with reference to Mollier's diagram), is calculated taking into consideration the temperature of the fluid (or gas) inside the pipes, ambient temperature and the relative humidity of the air.

SURFACE TEMPERATURE CALCULATION FORMULA

$$t_2 = \frac{0,2 \cdot \lambda \cdot (t_i - t_e)}{(d + 2s) \cdot L \cdot \frac{(d + 2s)}{d}} + t_e$$

TEMPERATURE INSIDE THE TUBE (°C)	INSULATION THICKNESS (mm)											
	AMBIENT TEMPERATURE (°C) AND RELATIVE HUMIDITY (%)											
	25 °C			30 °C			35 °C			40 °C		
	50%	60%	70%	50%	60%	70%	50%	60%	70%	50%	60%	70%
+15		6	6	6	6	6	6	6	9	6	6	9
+10	6	6	6	6	6	9	6	6	9	6	6	9
+5	6	6	9	6	6	9	6	6	9	6	9	9
0	6	6	9	6	6	9	6	9	9	6	9	13
-5	6	6	9	6	9	9	6	9	13	6	9	13
-10	6	9	9	6	9	13	6	9	13	9	9	13
-20	6	9	13	9	9	13	9	9	13	9	13	13

1/2 inch - 12,7 mm

5/8 inch - 15,88 mm



COPPER TUBES
ACR
TALOS
ECUTHERM 2™

REFRIGERATION
 AIR CONDITIONING

Clear advantage in refrigeration and air conditioning

ACR TALOS ECUTHERM 2™ pre-insulated copper tubes, manufactured by HALCOR are an innovation that ensures significant advantages for refrigeration and air conditioning specialists.

- **Simplified installation process and reduction of installation time.**
- **Reduction of overall network installation cost.**
- **Reliable operation of installations and significant energy savings.**
- **Competitively purchase price.**
- **Stylish and space saving.**
- **30-year guarantee, covering the quality of manufacture of the copper tube.**

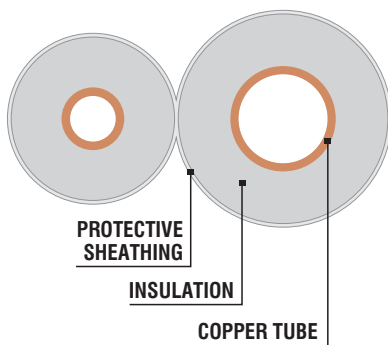
Pair combinations for any application

ACR TALOS ECUTHERM 2™ copper tubes are manufactured in pairs, firmly connected along their entire length, and in eight standard size combinations which cover sufficiently the usual connectivity requirements of any refrigeration or air conditioning unit.

ACR TALOS ECUTHERM 2™ copper tube pairs, form a single unit which is installed easily and fast, ensuring professional results.

Certified quality

ACR TALOS ECUTHERM 2™ pre-insulated copper tubes, have been certified by the German quality assurance organisation RWTUV, with regard to trials and manufacturing tests. The quality and reliability of such products, is ensured through the implementation of a Quality Assurance System, according to standard ISO 9001: 2000, certified by BUREAU VERITAS.



PAIR DIAMETERS
1/4 + 3/8
1/4 + 1/2
1/4 + 5/8
1/4 + 3/4
3/8 + 1/2
3/8 + 5/8
3/8 + 3/4
1/2 + 3/4

Appropriate also for the new green refrigeration units

According to the new Uniform European Standard EN 12735-1, as well as current market requirements, laid down by the use of new green refrigerants, including R 410-A, already adopted by all major manufacturers of refrigeration and air conditioning units, both in Greece and abroad, the following standardisation is applied to ACR TALOS ECUTHERM 2 copper tubes:

- For an external diameter of 1/4" to 1/2", the wall thickness is standardised at 0.80 mm.
- For an external diameter of 5/8" to 3/4", the wall thickness is standardised at 1.00 mm.

COPPER TUBE MATERIAL

Copper phosphorus deoxidised (DHP-Cu), minimum 99.9% Cu and P=0.015% - 0.040%.

MECHANICAL PROPERTIES

Temper	ELOT EN 1057 Classification	Tensile strength N/mm ²	Minimum elongation A5%
Soft	R-220	>220	>40

INSULATION TECHNICAL PROPERTIES

MATERIAL PEF	PE	PE-X
DENSITY ACCORDING TO DIN 53420 ASTM D 1667	30-31 Kg/m ³	30-33 Kg/m ³
THERMAL CONDUCTIVITY COEFFICIENT (λ) ACCORDING TO ASTM C 335	0,039 W/m-K	0,035 W/m-K
VAPOUR-WATER DIFFUSION RESISTANCE COEFFICIENT (μ) ACCORDING TO DIN 52615	≥12.000	≥12.000
WORKING TEMPERATURE	-35°C to +95°C	-80°C to +110°C
FIRE RESISTANCE	CL1, DIN 4102 B2	DIN 4102 B2, BS 476, M1
RESISTANCE TO CHEMICAL AGENTS ACCORDING TO ASTM 543-56 T	Very good	Very good
SOUND ABSORPTION ACCORDING TO DIN 4109 300-2500Hz	≈ 60%	≈ 60%

Values are listed as obtained under standard laboratory conditions and may be amended without prior notice.

STANDARD PAIR DIMENSIONS (COILS 15m, 25m, 30m LONG)

Copper tube external diameter	inch	1/4 - 3/8	1/4 - 1/2	1/4 - 5/8	1/4 - 3/4	3/8 - 1/2	3/8 - 5/8	3/8 - 3/4	1/2 - 3/4
	mm	6,35-9,52	6,35-12,7	6,35-15,88	6,35 - 19,05	9,52-12,7	9,52-15,88	9,52-19,05	12,7-19,05
Copper tube wall thickness	mm	0,80-0,80	0,80-0,80	0,80-1,00	0,80 - 1,00	0,80-0,80	0,80-1,00	0,80-1,00	0,80-1,00
Overall external diameter with 9mm thick insulation	mm	26,3 - 29,5	18,3 - 32,7	18,3 - 35,9	26,3 - 39,00	29,5 - 32,7	29,5 - 35,9	29,5 - 39,0	22,7 - 39,0
Maximum permitted working pressure according to ASTM B280	bar	186 - 84	186 - 63	186 - 62	186 - 51	84 - 63	84 - 62	84 - 51	63 - 51

Other sizes and special packaging in pallets or cardboard boxes are available upon request.

HALCOR

METAL WORKS S.A.

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