

GELO

SAFE AND PROFESSIONAL

FIELDS OF APPLICATION:

- Air-conditioning and refrigeration systems (ACR).
- Transport of refrigerant fluids.
- Transport of technical and industrial gases.

In compliance with and within the limits set by the applicable regulations

GELO is a copper tube intended for applications in the air-conditioning and refrigeration sector, in both residential and industrial settings, designed to ensure high reliability, internal cleanliness and operating safety.

Thanks to a high degree of internal cleanliness, GELO is particularly suitable for conveying refrigerant gases, technical gases and for creating vacuum systems. The product is suitable for use in high-pressure systems and has excellent workability characteristics.

Through controlled and dedicated production processes, an internal surface free from substances or particles that could be carried by the gases and compromise the operation of sensitive, high-value equipment is ensured.

The content of residues and/or dust on the internal surface is kept below 0.38 mg/dm², in compliance with the requirements of the EN 12735-1 standard. Internal cleanliness is preserved by capping the tube ends directly during production.

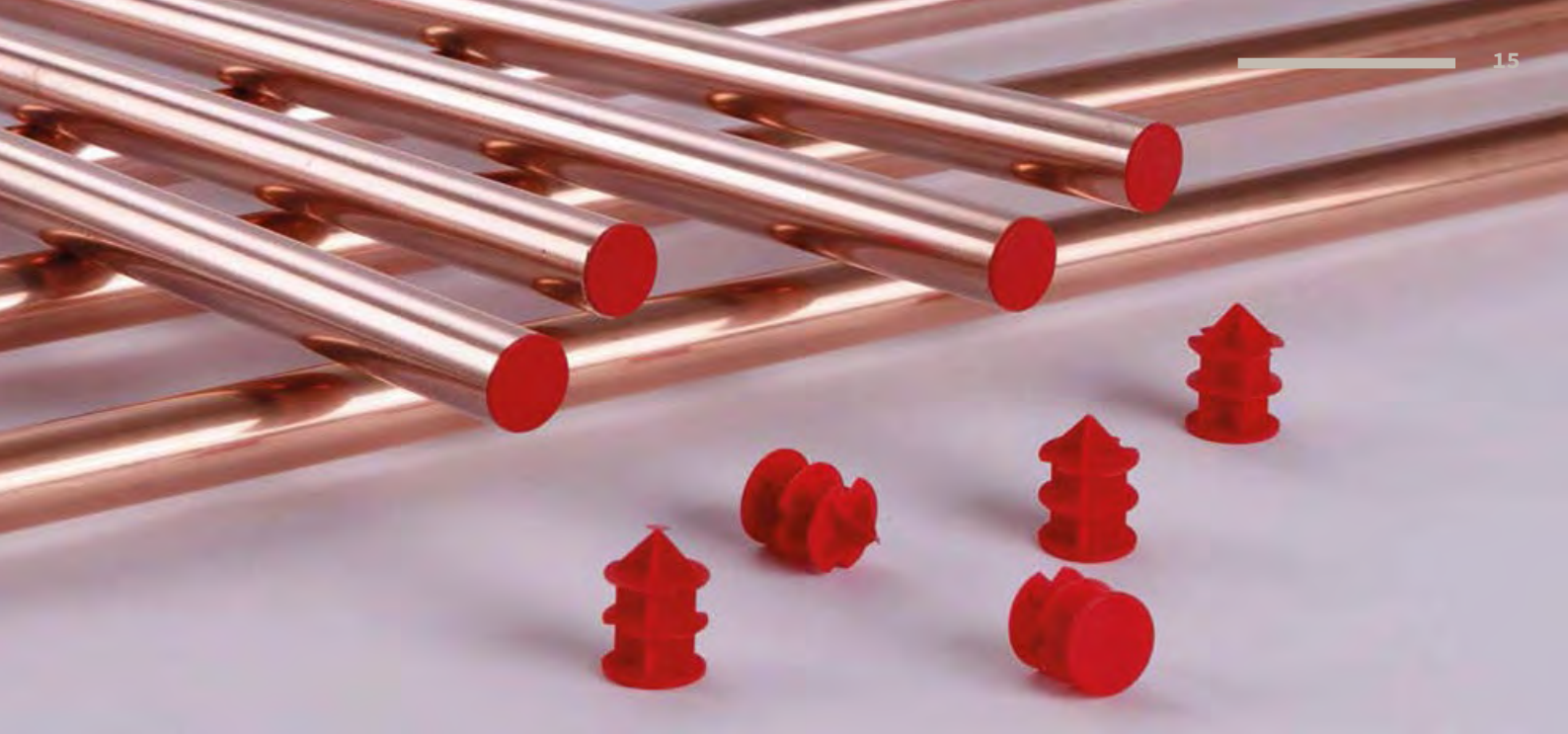
TECHNICAL CHARACTERISTICS

- Material: Cu-DHP (Cu ≥ 99.9% – P: 0.015 ÷ 0.040%) according to EN 1412.
- Dimensions and tolerances compliant with EN 12735-1.
- Temper: hard R290
- Ultimate tensile strength: Rm ≥ 290 MPa
- Elongation: A5 min. ≥ 3%

TABLE: STANDARD PRODUCTION SIZES - 5 M STRAIGHT LENGTHS

Size OD x WT		Burst Pressure	ASTM Working Pressure
(mm)	(inches)	(MPa)	(MPa)
15,87 x 1	5/8"	37,28	9,32
19,05 x 1	3/4"	31,06	7,76
22,22 x 1	7/8"	26,62	6,66
25,40 x 1	1"	23,29	5,82
28,57 x 1	1"1/8	20,71	5,18
28,57 x 1,25	1"1/8	25,88	6,47
31,75 x 1,25	1"1/4	23,29	5,82
34,92 x 1,25	1"3/8	21,18	5,29
38,10 x 1,25	1"1/2	19,41	4,85
41,27 x 1,25	1"5/8	17,92	4,48
53,97 x 1,65	2"1/8	18,09	4,52

OD = Outer Diameter WT = Wall Thickness



ACR APPLICATIONS

In accordance with EN 12735-1, GELO fully meets the needs of the air-conditioning and refrigeration (ACR) sector, both for industrial applications and for large-capacity and laboratory systems. The product is suitable for the transport of refrigerant fluids compatible with copper, such as R32, R410A, R407C, and other refrigerants used in modern systems.

GELO has a bright, clean and dry internal surface, a fundamental characteristic for preserving the efficiency of the system over time.

The production process guarantees a value of soluble residues on the internal surface below 0.38 mg/dm^2 , in full compliance with EN 12735-1.

Internal cleanliness is further ensured by sealing the ends of each tube with special caps, applied already during manufacture.

FORM OF SUPPLY, TRACEABILITY

GELO is supplied in 5 m straight lengths, with dimensions in inches, in hard temper R290.

Each pipe is identified by a unique batch number, which guarantees complete product traceability throughout the entire supply chain.

GELO is produced according to an ISO 9001 certified Quality Management System and complies with the requirements of the European PED Directive 2014/68/EU.

The use of GELO tubes requires a preliminary assessment of the intended use, the environmental conditions and the operating conditions of the system. This assessment must be carried out at the design stage by qualified personnel; installation must take place in full compliance with current regulations and according to good practice.

PIPE CAPPING

GELO is supplied in 5 m straight lengths, each sealed at the ends with polyethylene caps.

The sealing system uses a special cylindrical cap with a double row of permanent O-rings, which creates a stable coupling with the internal diameter of the pipe, preventing its accidental removal. This solution prevents the ingress of dust and impurities, ensuring that internal cleanliness is maintained until the moment of installation.

The high level of internal cleanliness is essential so that the refrigerant fluid does not contain contaminants that could cause clogging of the coil capillaries, compromise heat exchange and reduce the operating life of the machines.

