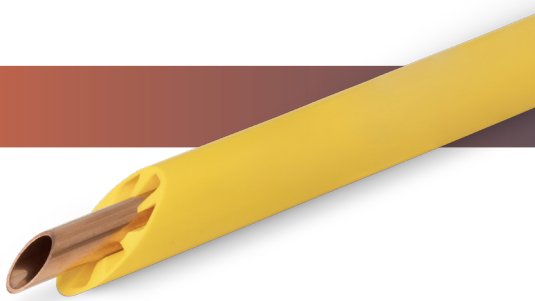
COPPER ALLOYS

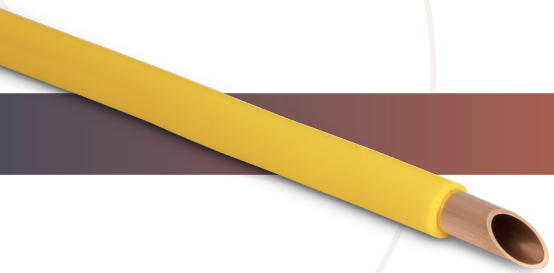
Insulated copper pipes for plumbing and heating applications

Insulated copper pipes for plumbing and heating applications are designed for water distribution in heating, sanitary and water systems, ensuring energy efficiency, pipe protection and long system life.
Made of copper in Cu-DHP alloy compliant with industry regulations, they offer high corrosion resistance, safety in the transport of fluids and excellent reliability over time. The dimensions, tolerances and quality of the pipes comply with the technical standards required for hydrothermal and sanitary applications.
The insulating coating in polyethylene or closed-cell expanded polyethylene protects the pipe during installation, reduces thermal losses and contributes to energy savings in systems.
Thanks to the combination of the properties of copper and the effectiveness of the insulation, these pipes represent a reliable solution for domestic and professional heating systems, water distribution and sanitary applications.

Stargas



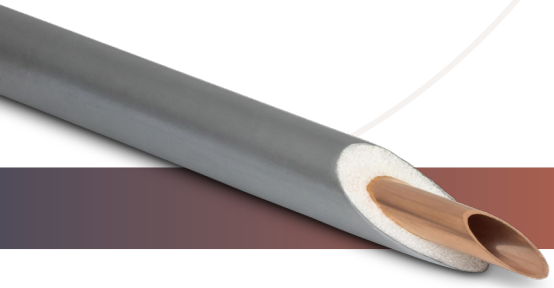
PE GAS



PE



Cupex New



HEADQUARTERS
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Stargas

Copper pipe with sheath according to the UNI CIG 7129 standard

The new type of sheath produced by Zetaesse has three revolutionary advantages:

- it guarantees the passage of air of 1 centimetre between the pipe and the outer sheath;
- it guarantees great impact resistance;
- it guarantees correct bending of the pipe thanks to its particular ribs.

FEINROHREN CARBON-FREE COPPER PIPE

- Alloy: Cu-DHP (Cu: 99.90% min. P: 0.015 / 0.040%) according to UNI EN 12449.
- Dimensions and tolerances according to UNI EN 1057, IGQ P112 certificate.
- Carbonaceous residue <0.05 mg/dm².
- Thicknesses according to UNI CIG 7129.

COATING

- Sheath: compact profiled polyethylene with air chamber of at least 10 mm UNI CIG 7129.
- Crush-proof.
- Marking: ZETAESSE UNI CIG 7129 STARGAS 12X1 UNI EN 1057 CE IGQ P112 TRIM. YEAR BATCH

Application sectors

Domestic gas

Certifications

UNI EN 1057

Copper pipe ext. Ø x thick.	Total size	Roll length	Max working pressure	Template ø x Radius of curvature	
mm	mm	mm	bar	mm	
12x1	24	50	104	22	R70
14x1	26	50	88	26	R70
15x1	27	50	82	29	R110
16x1	28	50	77	29	R110
18x1	30	25	66	32	R110
22X1	34	25	54	35	R110
22x1.5	34	25	82	35	R110

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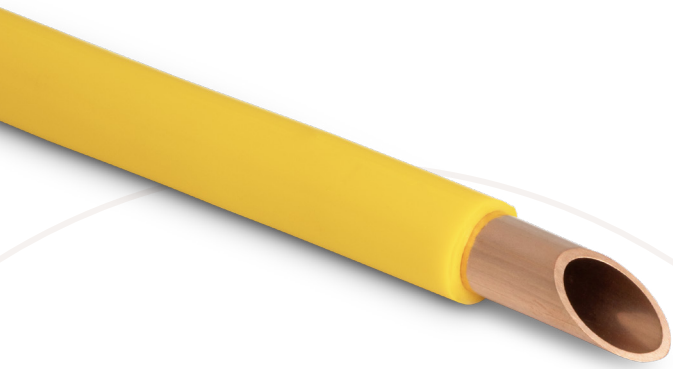

PE Gas

Coated copper pipe for GAS systems according to UNI 10823 standard for underground pipes. Copper pipe with adherent PE protective sheath, suitable for fuel gas conduction installations for domestic use.



FEINROHREN CARBON-FREE COPPER PIPE

- Alloy: Cu-DHP (Cu: 99.90% min. P: 0.015 ÷ 0.040%) according to UNI EN 12449.
- Dimensions and tolerances according to UNI EN 1057, IGQ P112 certificate
- Carbonaceous residue <0.05 mg/dm^2.
- Thicknesses according to UNI CIG 7129.

COATING

- Sheath: solid compact polyethylene according to UNI EN 13349 for underground pipes according to the UNI EN 10823 standard
- Density: 0.92 Kg/dm3.

Application sectors

Gas conduction systems

Certifications

UNI EN 1057

Copper pipe ext. Ø x thick.	Copper pipe nominal weight	PE nominal weight	Max working pressure T ≤ 100°
mm	g/m	g/m	bar
10x1	252	55	127
12x1	308	65	104
14x1	363	70	88
15x1	391	85	82
16x1	419	90	77
18x1	475	100	66
22x1	587	150	54
22x1.5	860	150	82

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PE

The copper pipe is protected by a polyethylene coating that makes it suitable for all types of installation.
The star-shaped PE sheath is suitable for sanitary, water and underfloor heating systems.



FEINROHREN CARBON-FREE COPPER PIPE

- Alloy: Cu-DHP (Cu: 99.90% min., P: 0.015÷0.040%)< according to UNI EN 12449.
- Dimensions, tolerances and internal cleaning according to EN 1057, IGQ P112 certificate.
- Carbonaceous residue < 0.05 mg/dm2.
- Complies with the provisions of Ministerial Decree 174/04 for materials in contact with drinking water.

COATING

- Sheath: compact star-shaped profiled polyethylene, according to EN 13349.
- Density: 0.92 Kg/dm?.

Application sectors

Water and sanitation systems

Certifications

UNI EN 1057

Copper pipe ext. Ø x thick.	Copper pipe nominal weight	PE nominal weight	Operating pressure T ≤ 100°	Water flow rate
mm	g/m	g/m	bar	l/m
6x1	140	18	226	0.013
8x1	195	25	163	0.028
10x1	252	45	127	0.050
12x1	308	55	104	0.079
14x1	363	60	88	0.113
15x1	391	75	82	0.133
16x1	419	80	77	0.154
18x1	475	90	66	0.201
22x1	587	135	54	0.314

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Cupex New

The pre-insulated copper pipe for safe energy savings.
The NEW CUPEX pipe is the first ZETAESSE patented coated pipe in compliance with the 10/91 DPR 412/93 regulation on energy saving in heating, water and sanitary systems.



FEINROHREN CARBON-FREE COPPER PIPE

- Alloy: Cu-DHP (Cu: 99.90% min. P: 0.015 / 0.040%) according to UNI EN 12449.
- Dimensions and tolerances according to UNI EN 1057, IGQ P112 certificate.
- Carbonaceous residue <0.05 mg/dm².

ZETACELL COATING

- Exterior: LD-PE.
- Internal: Closed cell CROSS-LINKED EXPANDED POLYETHYLENE according to EN 14313. Thicknesses according to EN 14114. L.D. 10/91 Presidential Decree 412/93.
- It does not contain CFCs and HCFCs (Reg. EEC/EU2037/2000), harmful to the environment.
- Thermal conductivity λ (9mm): 0.0363/0.0424 (0/40°C according to EN 12667).
- Operating temperature: -80° +120°C.
- Reaction to fire: Euroclass B S1 d0 according to EN 13501-1 CE.

Application sectors

- **Heating**
- **Water**
- **Sanitation**

Certifications

UNI EN 1057

B s1 d0

Copper pipe ext. Ø x thick.	Nominal weight copper pipe	Nominal insulating thickness	Operating pressure T ≤ 100°	Water flow rate
mm	g/m	mm	bar	bar
10x1	252	7.0	127	0.050
12x1	308	7.0	104	0.079
14x1	363	7.0	88	0.113
15x1	391	7.0	82	0.133
16x1	419	7.0	77	0.154
18x1	475	7.0	66	0.201
22x1	587	9.0	54	0.314

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