

D-GEL®

DOUBLE INSULATED COPPER PIPES
CONDITIONING

TECHNICAL SPECIFICATIONS

POLYETHYLENE FOAM INSULATION

The polyethylene foam assures thermal insulation from surroundings.

LOW DENSITY POLYETHYLENE FOAM: closed cells foam, CFC and HCFC gases free according to CEE/UE 2037/2000.

THERMAL CONDUCTIVITY: at 40°C: $\lambda = 0,038 \text{ W/(mK)}$, as per ISO 8497.

MOISTURE DIFFUSION COEFFICIENT: $\mu = 6.100$ according to EN 13469 ($\mu=19.700$ if required).

AVERAGE BULK DENSITY: 30 kg/m^3 .

SURFACE COVERING: grants repair from mechanical damages.

COLOUR: WHITE.

THICKNESS: according to UNI 10376, suitable to avoid dripping in standard working conditions (fluid temperature inside 7°C, room temperature 27°C, relative humidity lower or equal than 50%).

FIRE RESISTANCE: self-extinguish class 1, according to DM 26/06/1984 up-dated DM 03/09/2001.

SERVICE TEMPERATURE: -40°F (-40°C) to 230°F (110°C).

MARKING: insulation is marked progressively every meter.

APPLICATIONS: conditioning systems.



COPPER PIPE

Copper pipe assures the highest benefits in terms of hygiene and mechanical performances. Plastic caps maintain the inner pipe surface dry and clean.

STANDARDS: according to ASTM B280 and European standard EN 12735-1. Suitable for R407 and R410 gases.

MATERIAL: C12200 Cu-DHP copper alloy, phosphorous deoxidized, annealed copper pipes.

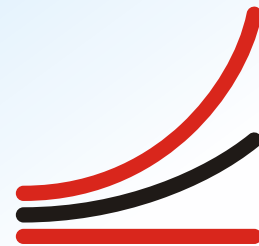
CHEMICAL COMPOSITION: Cu $\geq 99,90\%$, maximum allowable phosphorous content 0,015-0,04%.



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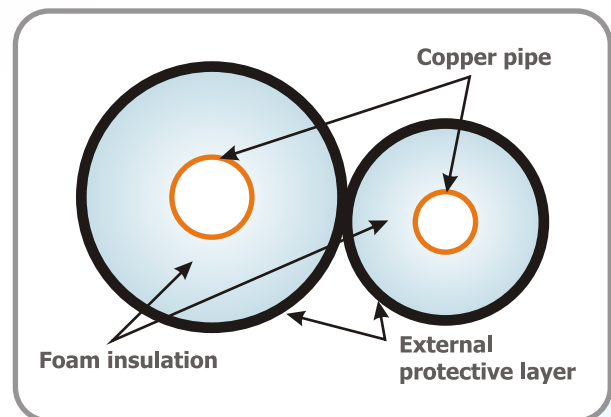
PDM
PREINSULATED PIPES

PRODUCT TABLE

INSULATION															
Minimum tickness	in	from 1/4 to 3/8				from 1/4 to 3/8				3/8					
	mm	from 6 to 9				from 6 to 9				9					

COPPER PIPE															
Outside diameter	in	1/4 - 3/8		1/4 - 1/2		1/4 - 5/8		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 - 15,8		9,52 - 12,7		9,52 - 15,8		9,52 - 19,05		12,7 - 19,05	
Wall tickness	in	0,031	0,031	0,031	0,031	0,031	0,039	0,031	0,031	0,031	0,039	0,031	0,039	0,031	0,039
	mm	0,8	0,8	0,8	0,8	0,8	1	0,8	0,8	0,8	1	0,8	1	0,8	1
Working pressure ASTM B111M	bar	140	95	140	70	140	70	95	70	95	70	95	58,9	140	58,9
	MPa	14,0	9,5	14,0	7,0	14,0	7,0	9,5	7,0	9,5	7,0	9,5	5,89	14,0	5,89

COIL LENGHT AVAILABILITY												
Feet	50				65,6				82			
Meters	15,24				20				25			



D-GEL® is insured by "REALE MUTUA ASSICURAZIONI" against manufacturing defects.

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