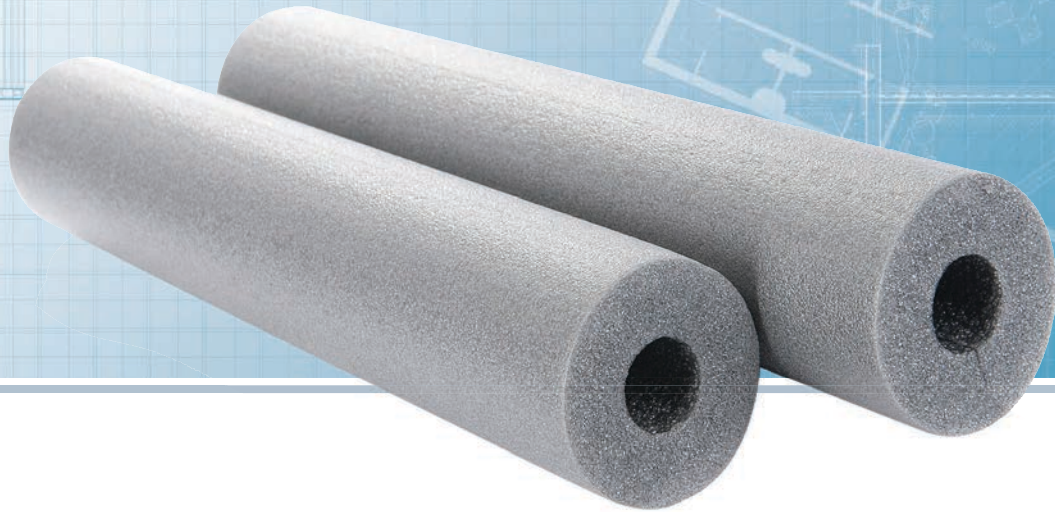


Kaifoam[®] PE



Saves energy and offsets pipe freezing in domestic applications

Silver-grey polyethylene pipe insulation for domestic heating, hot and cold water systems, Kaifoam PE exhibits stable thermal properties which save energy and offset pipe freezing over the entire life of a domestic heating system.

Kaifoam PE is easily applied with the semi-flexible tubes supplied pre-slit and simply pushed around the pipe. The closed cell polyethylene structure of Kaifoam PE is dust and fibre free, highly stable, non-brittle and non-reactive making it suitable for use on all domestic pipework.

- Energy saving for domestic heating pipework
- Easily installed without adhesive or tape
- Short payback period realises economic savings quickly



Saves energy and offsets pipe freezing in domestic applications

Kaifoam PE Technical Specification

Polymer		Polyethylene	
Cell Structure		Closed Cell	
Colour		Silver grey	
Upper Temperature Limit	pipe	+100°C	
Lower Temperature Limit	pipe	+5°C	see remark (1)
Thermal Conductivity	at +40°C	0.040 W/(m·K)	
Ignition Resistance		No Ignition	
Density		25 kg/m ³	
Dimensional Stability		2%	
Environmental Aspects		ODP zero GWP three	
Health Aspects		Dust & Fibre free	
Resistance to ...	Ozone	Good	
	Oil & Grease	Good	
Outdoor applications		Needs protection against UV- radiation	see remark (2)

Kaifoam PE Insulation Thickness to Control Pipe Freezing - see remark (3)

Copper Pipe Cu			Insulation Thickness in mm - see remark (3)			
NB inch	Nom OD inch	Nom OD mm	8 hours -6°C 50% ice formation	12 hours -6°C 50% ice formation	12 hours -10°C 50% ice formation	12 hours -20°C 50% ice formation
3/8	1/2	12	25 \diamond	25 \diamond	25 \diamond	25 \diamond
1/2	5/8	15	25 \diamond	25 \diamond	25 \diamond	25 \diamond
3/4	7/8	22	9	20	25 \diamond	25 \diamond
1	1 1/8	28	9	9	25	25 \diamond
1 1/4	1 3/8	35	9	9	13	25 \diamond
1 1/2	1 5/8	42	9	9	9	25
2	2 1/8	54	9	9	9	20

Thickness's marked \diamond are not sufficient to prevent pipe freezing for 12 hours or greater but are the greatest commercially available thickness. For these sizes it is suggested that insulation is used in combination with trace heating and other anti-freezing measures.

Remark (1) For temperatures below +5°C please contact our Technical Support Team.

Remark (2) Kaifoam PE is not designed to withstand UV-radiation. When installed in outdoor locations an UV-resistant covering should be applied within 3 days.

Remark (3) Thickness's in this table control pipe freezing by offsetting the freezing time by 8-12 hours at the temperatures specified. Where temperatures are expected to remain below freezing for longer than 12 hours specialist advice should be sought and our Technical Support Team should be contacted on +44 (0) 161 408 1806.

Saves energy and offsets pipe freezing in domestic applications

Kaifoam PE tubes

Colour: silver grey; Length: 2 m

Copper Pipe Cu			Iron & Steel pipe Fe		9 mm Insulation Thickness			13 mm Insulation Thickness		
NB inch	Nom OD inch	Nom OD mm	NB inch	Nom OD mm	Reference	m / carton		Reference	m / carton	
3/8	1/2	12			PE-09x12	456		PE-13x12	300	
1/2	5/8	15			PE-09x15	380		PE-13x15	256	
3/4	7/8	22	1/2	21.3	PE-09x22	250		PE-13x22	180	
1	1 1/8	28	3/4	26.9	PE-09x28	190		PE-13x28	140	
1 1/4	1 3/8	35	1	33.7	PE-09x35	150		PE-13x35	120	
1 1/2	1 5/8	42	1 1/4	42.4	PE-09x42	110		PE-13x42	90	
			1 1/2	48.3	PE-09x48	90		PE-13x48	70	
2	2 1/8	54						PE-13x54	66	
			2	60.3				PE-13x60	48	
2 13/16	3	76.1	2 1/2	76.1				PE-13x76	40	

Copper Pipe Cu			Iron & Steel pipe Fe		20 mm Insulation Thickness			25 mm Insulation Thickness		
NB inch	Nom OD inch	Nom OD mm	NB inch	Nom OD mm	Reference	m / carton		Reference	m / carton	
3/8	1/2	12								
1/2	5/8	15			PE-20x15	134		PE-25x15	90	
3/4	7/8	22	1/2	21.3	PE-20x22	108		PE-25x22	70	
1	1 1/8	28	3/4	26.9	PE-20x28	96		PE-25x28	66	
1 1/4	1 3/8	35	1	33.7	PE-20x35	70		PE-25x35	56	
1 1/2	1 5/8	42	1 1/4	42.4	PE-20x42	60		PE-25x42	48	

- all 9 mm and 13 mm tubes are semi-slit
- 20x15, 20x22, 20x28, 25x15, 25x22, 25x28 are slit
- Tubes in 1m length are available upon request
- Items marked with ◊ delivery quoted on request.



Kaifoam PE tubes DHCG compliant

Meets Building Regulation Part L (England & Wales) domestic compliance requirements; Colour: silver-grey; Length: 2 m						
Copper Pipe Cu		Maximum permissible heat loss W/m	Insulation thickness mm	Reference	m / carton	
Nom OD inch	Nom OD mm					
	8	7.06	13	PE-13x12	300	
3/8	10	7.23	13	PE-13x12	300	
1/2	12	7.35	19	PE-20x15	134	
5/8	15	7.89	19	PE-20x15	134	
7/8	22	9.12	25	PE-25x22	70	
1 1/8	28	10.07	25	PE-25x28	66	
1 3/8	35	11.08	30	PE-30x35 ◊	28	
1 5/8	42	12.19	30	PE-30x42 ◊	24	
2 1/8	54	14.12	30	PE-30x54 ◊	22	

Kaifoam PE accessories

	Description	Reference	carton content	
Self-adhesive tape	Thickness: 3mm - Width: 50mm - Length: 10m - Colour: Grey	PE-TAPE-50	10 rolls	
Clips	Colour: Grey	PE-CLIPS	25 bags = 2,500 clips	

- all 9 mm and 13 mm tubes are semi-slit
- 20x15, 20x22, 20x28, 25x15, 25x22, 25x28 are slit
- Items marked with ◊ delivery quoted on request.



KAIMANN
foam technology of tomorrow

Kaimann GmbH · School House Business Centre · Brideoak Street, Waterhead · Oldham · Greater Manchester · OL4 2HB · Phone +44 (0) 161 627 3289
Fax +44 (0) 161 880 2551 · Email info.uk@kaimann.com · www.kaimann.co.uk · © 2013 Kaimann GmbH · All rights reserved.

Kaimann GmbH provides this information as a technical service. Where information is provided that is a direct result of Kaimann's own technical analysis and testing, the information displayed is an interpretation of the data accurate to the extent of our knowledge and ability as of date of printing. Standardised methods and procedures are used wherever possible. Some information presented may be derived from sources other than Kaimann and in these cases Kaimann is substantially, if not wholly, relying upon the other source(s) to provide accurate information.

Actual technical performance may be dependent on the specific installation and site conditions. Since Kaimann cannot control installation or site conditions, Kaimann does not guarantee that the user will obtain the same results as published in this document. It is the responsibility of each user to perform their own tests in order to determine the safety, fitness and suitability of the products, or combination of products, for any foreseeable purposes, applications and uses by the user and/or any third party to which the user may convey the products.

Declared technical performance, laws and recommendations may vary by country and all data presented here is intended for use in the UK & Ireland only. All data and information presented is provided as a technical service and are subject to change without notice.