



Kaiflex[®] HF plus s2

Free from halogens. Protects in case of fire. Prevents corrosion.

- Free of PVC, chlorides and brominated flame retardants
- Prevents stress corrosion cracking
- Complies with s2 high European smoke specifications
- Suitable for use in sustainable, green building compliant projects



Free from halogens.

Protects in case of fire. Prevents corrosion.

Halogen-free insulation materials are becoming more and more important in technical insulation. Since they are free of PVC, chlorides and brominated flame retardants, they are particularly suited to industrial and specialist applications where toxic combustion gases are a special hazard. This includes their use in maritime, railway, airport and hospital settings.

Kaiflex HFplus s2 insulation materials are uncritically foamed, free of halogens and heavy metals, and meet smoke development class s2 and fire resistance class R90 specifications. This insulation system thus complies with rigorous European requirements for construction products for fire protection and sustainable building. It meets the required safety standards even in demanding environments.

International certifications

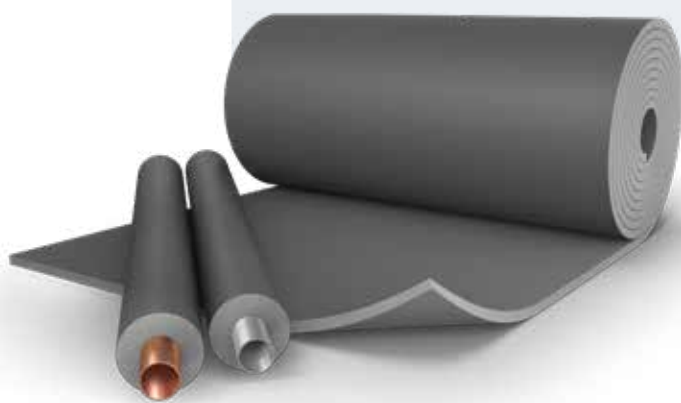
This halogen-free insulation material is approved for many application areas and special requirements with its international certifications. Since it is free of chloride, Kaiflex HFplus s2 prevents stress corrosion cracking and can be installed with confidence for insulating stainless steel pipes, such as those found in food and pharmaceutical production.

Kaiflex HFplus s2 is available in tube and sheet formats. The sheets also come in self-adhesive versions. Together with Kaiflex RT-HFplus s2 pipe supports and Kaiflex 494 HHF special adhesive, all components form a complete coordinated system.

Guaranteed sustainable – green light for green buildings

For Green Building certification, sustainability must be addressed in the installation of all fixtures and fittings. This naturally also applies to the insulation of technical building installations. The Kaiflex HFplus s2 insulation system fully meets

- Free of PVC, chlorides and brominated flame retardants
- Prevents stress corrosion cracking
- Complies with s2 high European smoke specifications
- Suitable for use in sustainable, green building compliant projects



the declaration criteria for low-pollution building materials. Depending on the configuration, it complies with Green Building standards such as BREEAM, DGNB and LEED, and can be used with confidence in sustainable construction.

With its specific structure, this high-quality rubber material for demanding hygienic applications also offers further health benefits. As a closed-cell insulation material, Kaiflex HFplus s2 generates no harmful particles, whether in ongoing operation or during installation and working with the material.

Environmental Product Declarations (EPD) make the ecological assessment of Kaimann insulation materials even more transparent. In this way, the company assists in the planning and certification of sustainable buildings.

Further services and information

Additional assistance in planning and selecting the optimum insulation system is provided by the Kaimann Fire Protection Planner at www.sgti-firepenetration.com.



Guaranteed halogen-free

Kaiflex is free of PVC, chlorides and brominated flame retardants, making it the ideal choice for construction projects with high safety requirements.



Reduced smoke development

In the event of a fire, visibility in rooms and corridors must be guaranteed for as long as possible. Through improved fire behaviour, Kaiflex increases personal protection and reduces contamination of building inventory.



Exceptionally sustainable

Kaiflex supports the certification of sustainable buildings through high energy efficiency, long product life, combined with safety and comfort.



Further information, technical documents, application guides, services and much more can be found online at

www.kaimann.com

Certified quality



EPD

Transparent ecological balance thanks to an "Environmental Product Declaration".



LEED

Contribution to the certification of buildings according to the international classification system for ecological construction (Leadership in Energy and Environmental Design).

Related system components and accessories from our product range



Kaiflex RT-HFplus s2

Insulated pipe support to prevent condensation and thermal bridges.



Kaiflex Special

Adhesive 494 HHF
The halogen-free and Green Building-compliant special adhesive

Kaimann Services



KaiCalc

Insulation thickness calculator for technical insulation in heating and cooling applications.

www.kaicalc.com



On-site consulting

Benefit from personal advice from our dedicated and competent application engineers and field service staff.



Kaiflex HFplus s2

Technical Data

| | | | |
|---------------------------------------|--|---|---|
| Material type base | | Elastomeric foam based on synthetic rubber, Flexible Elastomeric Foam (FEF) | |
| Cell structure | | Closed cell | |
| Colour | | Anthracite | |
| Max. service temperature | Pipe Flat surface | +110 °C +85 °C | |
| Min. service temperature | | -40 °C | see remark (1) |
| Thermal conductivity | λ_g at -10 °C at 0 °C at +10 °C | $0.040 + 8.0 \cdot 10^{-5} \cdot \vartheta + 7.0 \cdot 10^{-7} \cdot \vartheta^2$ $\leq 0.039 \text{ W/(m·K)}$ $\leq 0.040 \text{ W/(m·K)}$ $\leq 0.041 \text{ W/(m·K)}$ | Test acc. to DIN EN ISO 8497 Test acc. to DIN EN 12667 |
| Water vapour permeability | Moisture resistance factor μ | ≥ 2000 | Test acc. to DIN EN 13469 Test acc. to DIN EN 12086 |
| Fire behaviour | Tube | Euroclass characteristics ⁽²⁾ D _L -s2, d0 (corresponds to RF3 acc. to VKF Fire protection guidelines) | Test acc. to DIN EN 13501-1 |
| | Sheet | Euroclass characteristics ⁽²⁾ D-s2, d0 (corresponds to RF3 acc. to VKF Fire protection guidelines) Self-extinguishing, no drips | Test acc. to DIN EN 13501-1 |
| Environmental aspects | | ODP Zero GWP Zero | |
| Health aspects | | Fibre free: For high hygiene requirements Halogen free (chlorine, bromine, PVC etc.) Free from heavy metal (e.g. cadmium, lead) and formaldehyde | |
| Other properties | ph-Value | Neutral | |
| Other certificates / approvals | | CE-compliant Lloyds Register Approval Bureau Veritas Type Approved Det Norske Veritas Type Approval ABS Type Approval Certificate IMO MSC.61(67) MED Modul B & D | |
| Storage | Self-adhesive products | The material must be installed within one year after delivery and proper storage. Store in a dry room at a typical relative humidity (between 50 % and 70 %) and room temperature (between 0 °C and +35 °C) | |
| Tolerances & limits | | Satisfies requirements | In acc. with EN 14304:2009+A1:2013 |
| Outdoor applications | | Needs protection against UV-radiation | see remark (3) |

Remark (1) For temperatures below -40 °C please contact our Technical Support Team for advice.

Remark (2) The Euroclass rating applies to metallic or solid mineral substrates.

Remark (3) To protect against UV-induced deterioration Kaiflex must be either painted using Kaifinish Color paint or covered with a suitable UV resistant cladding system within 1 day of being installed outdoors.



0736/2023



Kaiflex HFplus s2

Tube



Colour: Anthracite · Length: 1,2 m

| Copper pipe Cu | | | Iron & steel pipe Fe | | Min iD mm | 9 mm Insulation thickness | | |
|-------------------|-------------------|-------------------|-------------------------|-----------------|-----------------|------------------------------|-----------|--------------|
| NB inch | Nom OD inch | Nom OD inch | NB inch | Nom OD mm | | Dimension / Reference | Order No. | m/ carton |
| | 3/8 | 10.0 | 1/8 | 10.2 | 11.0 | HF+s2-T-1,2m-09x010 | 4014182 | 204.0 |
| 3/8 | 1/2 | 12.0 | | 12.5 | 13.0 | HF+s2-T-1,2m-09x012 | 4014180 | 144.0 |
| 1/2 | 5/8 | 15.0 | 1/4 | 13.5 | 16.0 | HF+s2-T-1,2m-09x015 | 4000809 | 158.4 |
| | 3/4 | 18.0 | 3/8 | 17.2 | | HF+s2-T-1,2m-09x018 | 4000810 | 144.0 |
| 3/4 | 7/8 | 22.0 | 1/2 | 21.3 | 23.0 | HF+s2-T-1,2m-09x022 | 4014062 | 105.6 |
| 1 | 1 1/8 | 28.0 | 3/4 | 26.9 | 29.0 | HF+s2-T-1,2m-09x028 | 4014063 | 86.4 |
| 1 1/4 | 1 3/8 | 35.0 | 1 | 33.7 | 36.0 | HF+s2-T-1,2m-09x035 | 4000813 | 69.6 |
| 1 1/2 | 1 5/8 | 42.0 | 1 1/4 | 42.4 | 43.5 | HF+s2-T-1,2m-09x042 | 4000814 | 57.6 |
| | | | 1 1/2 | 48.3 | 49.5 | HF+s2-T-1,2m-09x048 | 4000815 | 50.4 |

| Copper pipe Cu | | | Iron & steel pipe Fe | | Min iD mm | 13 mm Insulation thickness | | |
|-------------------|-------------------|-------------------|-------------------------|-----------------|-----------------|-------------------------------|-----------|--------------|
| NB inch | Nom OD inch | Nom OD inch | NB inch | Nom OD mm | | Dimension / Reference | Order No. | m/ carton |
| | 3/8 | 10.0 | 1/8 | 10.2 | 11.0 | HF+s2-T-1,2m-13x010 | 4000820 | 134.4 |
| 3/8 | 1/2 | 12.0 | | 12.5 | 13.0 | HF+s2-T-1,2m-13x012 | 4000821 | 120.0 |
| 1/2 | 5/8 | 15.0 | 1/4 | 13.5 | 16.0 | HF+s2-T-1,2m-13x015 | 4014181 | 96.0 |
| | 3/4 | 18.0 | 3/8 | 17.2 | | HF+s2-T-1,2m-13x018 | 4000823 | 88.8 |
| 3/4 | 7/8 | 22.0 | 1/2 | 21.3 | 23.0 | HF+s2-T-1,2m-13x022 | 4014064 | 72.0 |
| 1 | 1 1/8 | 28.0 | 3/4 | 26.9 | 29.0 | HF+s2-T-1,2m-13x028 | 4000825 | 57.6 |
| 1 1/4 | 1 3/8 | 35.0 | 1 | 33.7 | 36.0 | HF+s2-T-1,2m-13x035 | 4014065 | 43.2 |
| 1 1/2 | 1 5/8 | 42.0 | 1 1/4 | 42.4 | 43.5 | HF+s2-T-1,2m-13x042 | 4014066 | 36.0 |
| | | | 1 1/2 | 48.3 | 49.5 | HF+s2-T-1,2m-13x048 | 4000828 | 38.4 |
| 2 | 2 1/8 | 54.0 | | 54.0 | 55.0 | HF+s2-T-1,2m-13x054 | 4000829 | 28.8 |
| | | | 2 | 60.3 | 61.5 | HF+s2-T-1,2m-13x060 | 4000830 | 28.8 |
| 2 13/16 | 3 | 76.1 | 2 1/2 | 76.1 | 77.0 | HF+s2-T-1,2m-13x076 | 4000831 | 25.2 |
| | | 88.9 | 3 | 88.9 | 90.5 | HF+s2-T-1,2m-13x089 | 4000832 | 16.8 |

| Copper pipe Cu | | | Iron & steel pipe Fe | | Min iD mm | 19 mm Insulation thickness | | |
|-------------------|-------------------|-------------------|-------------------------|-----------------|-----------------|-------------------------------|-----------|--------------|
| NB inch | Nom OD inch | Nom OD inch | NB inch | Nom OD mm | | Dimension / Reference | Order No. | m/ carton |
| | 3/8 | 10.0 | 1/8 | 10.2 | 11.0 | HF+s2-T-1,2m-19x010 | 4000833 | 72.0 |
| 3/8 | 1/2 | 12.0 | | 12.5 | 13.0 | HF+s2-T-1,2m-19x012 | 4000834 | 72.0 |
| 1/2 | 5/8 | 15.0 | 1/4 | 13.5 | 16.0 | HF+s2-T-1,2m-19x015 | 4014067 | 62.4 |
| | 3/4 | 18.0 | 3/8 | 17.2 | | HF+s2-T-1,2m-19x018 | 4000836 | 50.4 |
| 3/4 | 7/8 | 22.0 | 1/2 | 21.3 | 23.0 | HF+s2-T-1,2m-19x022 | 4014068 | 43.2 |
| 1 | 1 1/8 | 28.0 | 3/4 | 26.9 | 29.0 | HF+s2-T-1,2m-19x028 | 4000838 | 39.6 |
| 1 1/4 | 1 3/8 | 35.0 | 1 | 33.7 | 36.0 | HF+s2-T-1,2m-19x035 | 4000839 | 30.0 |
| 1 1/2 | 1 5/8 | 42.0 | 1 1/4 | 42.4 | 43.5 | HF+s2-T-1,2m-19x042 | 4000840 | 26.4 |
| | | | 1 1/2 | 48.3 | 49.5 | HF+s2-T-1,2m-19x048 | 4000841 | 22.8 |
| 2 | 2 1/8 | 54.0 | | 54.0 | 55.0 | HF+s2-T-1,2m-19x054 | 4000842 | 21.6 |
| | | | 2 | 60.3 | 61.5 | HF+s2-T-1,2m-19x060 | 4000843 | 19.2 |
| 2 13/16 | 3 | 76.1 | 2 1/2 | 76.1 | 77.0 | HF+s2-T-1,2m-19x076 | 4000844 | 14.4 |
| | | 88.9 | 3 | 88.9 | 90.5 | HF+s2-T-1,2m-19x089 | 4000845 | 12.0 |

Slit tubes available on request.

Kaiflex HFplus s2 Tube



Colour: Anthracite · Length: 1,2 m

| Copper pipe Cu | | | Iron & steel pipe Fe | | Min iD mm | 25 mm Insulation thickness | | |
|-------------------|-------------------|-------------------|-------------------------|-----------------|-----------------|-------------------------------|-----------|--------------|
| NB inch | Nom OD inch | Nom OD inch | NB inch | Nom OD mm | | Dimension / Reference | Order No. | m/ carton |
| 1/2 | 5/8 | 15.0 | 1/4 | 13.5 | 16.0 | HF+s2-T-1,2m-25x015 | 4000846 | 39.6 |
| | 3/4 | 18.0 | 3/8 | 17.2 | | HF+s2-T-1,2m-25x018 | 4000847 | 36.0 |
| 3/4 | 7/8 | 22.0 | 1/2 | 21.3 | 23.0 | HF+s2-T-1,2m-25x022 | 4000848 | 30.0 |
| 1 | 1 1/8 | 28.0 | 3/4 | 26.9 | 29.0 | HF+s2-T-1,2m-25x028 | 4014069 | 21.6 |
| 1 1/4 | 1 3/8 | 35.0 | 1 | 33.7 | 36.0 | HF+s2-T-1,2m-25x035 | 4000850 | 24.0 |
| 1 1/2 | 1 5/8 | 42.0 | 1 1/4 | 42.4 | 43.5 | HF+s2-T-1,2m-25x042 | 4000851 | 19.2 |
| | | | 1 1/2 | 48.3 | 49.5 | HF+s2-T-1,2m-25x048 | 4000852 | 16.8 |
| 2 | 2 1/8 | 54.0 | | 54.0 | 55.0 | HF+s2-T-1,2m-25x054 | 4000853 | 16.8 |
| | | | 2 | 60.3 | 61.5 | HF+s2-T-1,2m-25x060 | 4000854 | 14.4 |
| 2 13/16 | 3 | 76.1 | 2 1/2 | 76.1 | 77.0 | HF+s2-T-1,2m-25x076 | 4000855 | 12.0 |
| | | 88.9 | 3 | 88.9 | 90.5 | HF+s2-T-1,2m-25x089 | 4000856 | 9.6 |

| Copper pipe Cu | | | Iron & steel pipe Fe | | Min iD mm | 32 mm Insulation thickness | | |
|-------------------|-------------------|-------------------|-------------------------|-----------------|-----------------|-------------------------------|-----------|--------------|
| NB inch | Nom OD inch | Nom OD inch | NB inch | Nom OD mm | | Dimension / Reference | Order No. | m/ carton |
| 1/2 | 5/8 | 15.0 | 1/4 | 13.5 | 16.0 | HF+s2-T-1,2m-32x015 | 4000857 | 21.6 |
| | 3/4 | 18.0 | 3/8 | 17.2 | | HF+s2-T-1,2m-32x018 | 4000858 | 21.6 |
| 3/4 | 7/8 | 22.0 | 1/2 | 21.3 | 23.0 | HF+s2-T-1,2m-32x022 | 4000859 | 21.6 |
| 1 | 1 1/8 | 28.0 | 3/4 | 26.9 | 29.0 | HF+s2-T-1,2m-32x028 | 4000860 | 19.2 |
| 1 1/4 | 1 3/8 | 35.0 | 1 | 33.7 | 36.0 | HF+s2-T-1,2m-32x035 | 4000861 | 18.0 |
| 1 1/2 | 1 5/8 | 42.0 | 1 1/4 | 42.4 | 43.5 | HF+s2-T-1,2m-32x042 | 4000862 | 14.4 |
| | | | 1 1/2 | 48.3 | 49.5 | HF+s2-T-1,2m-32x048 | 4000863 | 13.2 |
| 2 | 2 1/8 | 54.0 | | 54.0 | 55.0 | HF+s2-T-1,2m-32x054 | 4000864 | 10.8 |
| | | | 2 | 60.3 | 61.5 | HF+s2-T-1,2m-32x060 | 4000865 | 10.8 |
| 2 13/16 | 3 | 76.1 | 2 1/2 | 76.1 | 77.0 | HF+s2-T-1,2m-32x076 | 4000866 | 8.4 |
| | | 88.9 | 3 | 88.9 | 90.5 | HF+s2-T-1,2m-32x089 | 4000867 | 7.2 |

Slit tubes available on request.

Kaiflex HFplus s2

Sheet · endless


Colour: Anthracite · Width: 1 m · OD coil: 40 cm · in box

| Insulation thickness mm | Dimension / Reference | Order No. | rm/ carton | m ² / carton |
|----------------------------|-----------------------|-----------|---------------|----------------------------|
| 6 | HF+s2-Sh-e-1m-40BX-06 | 4013734 | 18 | 18 |
| 10 | HF+s2-Sh-e-1m-40BX-10 | 4013736 | 10 | 10 |
| 13 | HF+s2-Sh-e-1m-40BX-13 | 4008750 | 8 | 8 |
| 19 | HF+s2-Sh-e-1m-40BX-19 | 4008751 | 6 | 6 |
| 25 | HF+s2-Sh-e-1m-40BX-25 | 4008752 | 4 | 4 |
| 32 | HF+s2-Sh-e-1m-40BX-32 | 4013739 | 3 | 3 |

Kaiflex HFplus s2




Sheet · endless · self-adhesive


Colour: Anthracite · Width: 1 m · OD coil: 40 cm · in box

| Insulation thickness mm | Dimension / Reference | Order No. | rm/ carton | m ² / carton |
|----------------------------|--------------------------|-----------|---------------|----------------------------|
| 6 | HF+s2-Sh-e-1m-40BX-06-SA | 4013735 | 18 | 18 |
| 10 | HF+s2-Sh-e-1m-40BX-10-SA | 4013737 | 10 | 10 |
| 13 | HF+s2-Sh-e-1m-40BX-13-SA | 4013738 | 8 | 8 |
| 19 | HF+s2-Sh-e-1m-40BX-19-SA | 4008753 | 6 | 6 |
| 25 | HF+s2-Sh-e-1m-40BX-25-SA | 4008754 | 4 | 4 |
| 32 | HF+s2-Sh-e-1m-40BX-32-SA | 4013740 | 3 | 3 |






Accessories

Adhesive · Cleaner · Protective Coating

| | | Details | Dimension / Reference | Order No. | Container type | Content | Pcs./ PU |
|---|----------------------------------|----------------------------------|-----------------------|-----------|----------------|---------|----------|
| Adhesive | | | | | | | |
|  | Kaiflex Special Adhesive 494 HHF | hexane- and halogenfree | Ad-494-CN2200 | 4012616 | Canister | 2200 g | 6 |
| | Kaiflex Special Adhesive 515 ECO | solvent-free | Ad-515-CA1000 | 4004706 | Can | 1000 g | 12 |
| Cleaner | | | | | | | |
|  | Kaiflex Cleaner | | Clean-CA1000 | 4004732 | Can | 1.0 l | 12 |
| Protective Coating | | | | | | | |
|  | Kaifinish Color | Colour: White (approx. RAL 9010) | KF-Co-wh-CA750 | 4004719 | Can | 0.75 l | 4 |
| | | Colour: Grey (approx. RAL 7035) | KF-Co-gr-CA750 | 4004720 | Can | 0.75 l | 4 |


Accessories

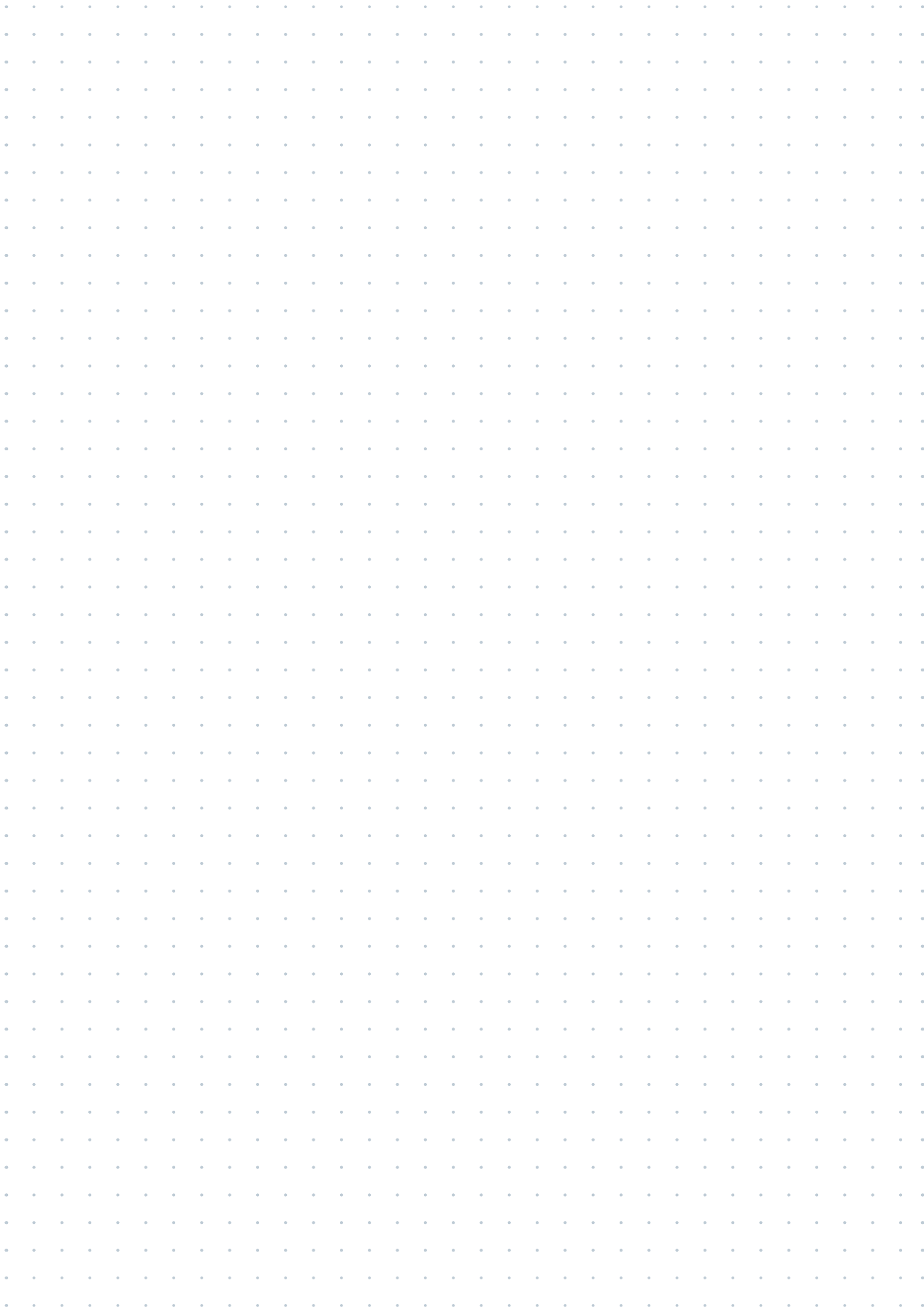
Glue pump · Knife · Gel ink pen

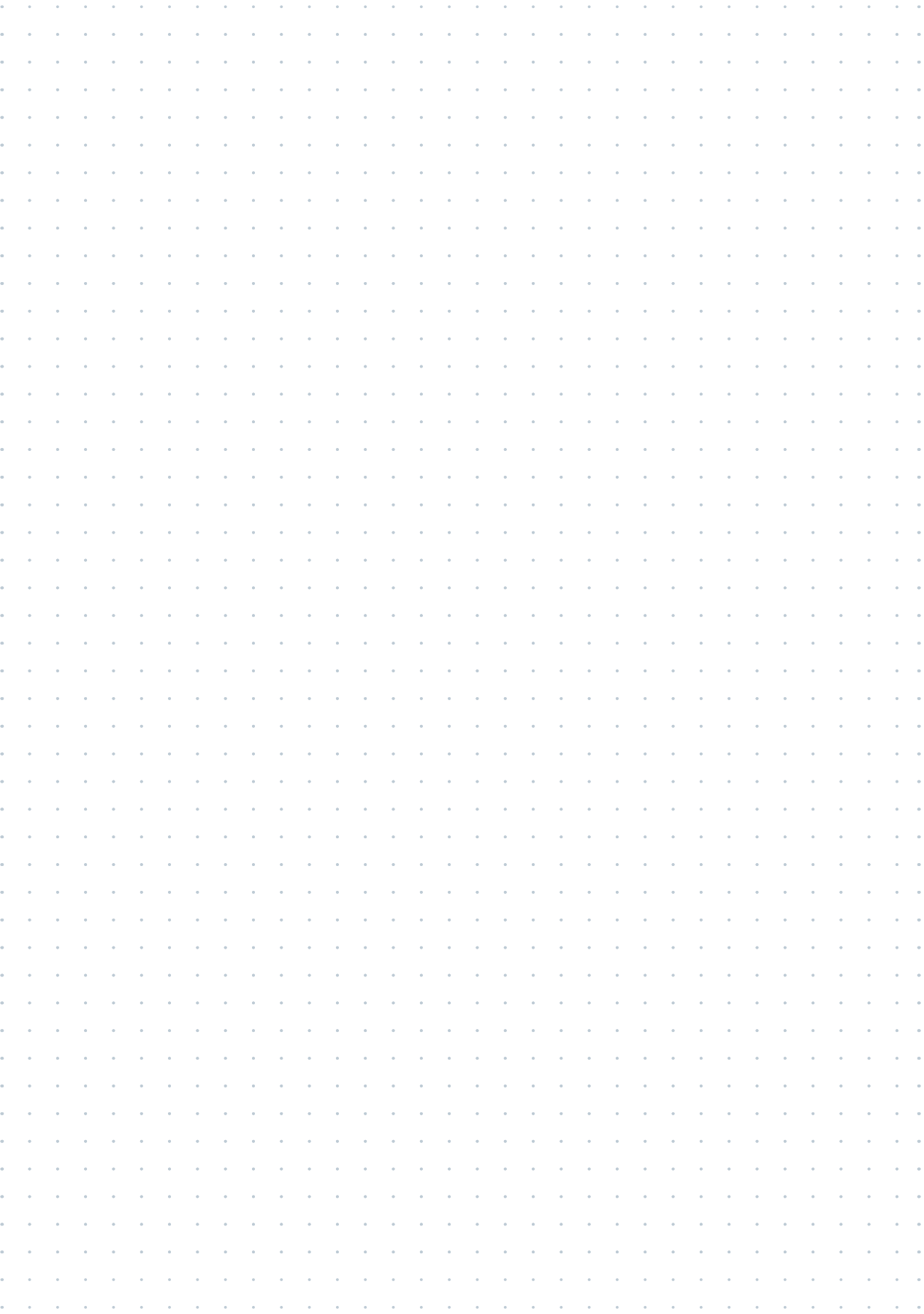
| | | Details | Dimension / Reference | Order No. | Pcs./ PU |
|---|---------------|---|------------------------|-----------|----------|
| Glue pump | | | | | |
|  | Glue pump | long spout · 17 mm brush | GI-Pmp-long | 4004718 | 1 |
| | Glue pump | short spout · 17 mm brush | GI-Pmp-short | 4004715 | 1 |
| | 11 mm brush | for glue pump | GI-Pmp-Brush-11 | 4004716 | 1 |
| | 17 mm brush | for glue pump | GI-Pmp-Brush-17 | 4004717 | 1 |
| Knife | | | | | |
|  | Ceramic knife | with ceramic blade (15 cm) and plastic handle (14 cm) | Knf-Ceramic | 4004737 | 1 |
|  | Sheet knife | | Knf-Sheet | 4004735 | 1 |
|  | Set of knives | 3 knives, 1 whetstone | Knf-Set | 4004736 | 1 |
| Gel ink pen | | | | | |
|  | Gel ink pen | Colour: Silver · for marking on insulation materials | Gelpen | 4004730 | 12 |

Accessories

Tape

| | | Details | Dimension / Reference | Order No. | Width mm | Length m | Thickness mm | Pcs./ PU |
|---|------------------------|---------------|----------------------------|-----------|----------|----------|--------------|----------|
|  | Kaiflex HFplus s2 Tape | self-adhesive | Tp-HF+s2-50/15/3-SA | 4005135 | 50 | 15 | 3 | 12 |





Tolerances, Limits

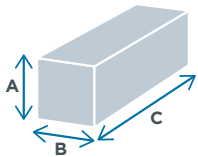
EN 14304:2009+A1:2013 · Flexible Elastomeric Foam (FEF)

| Delivery form | Length | Width | Thickness | | Perpendicularity | Inner diameter | |
|-----------------|------------------|--------------|---|--|--|---------------------------------------|---------------------------------------|
| | | | Stated | Limits | | $D_i \leq 100$ | $D_i > 100$ |
| Tube | $\pm 1.5 \%$ | - | $d_o \leq 8$ $8 < d_o \leq 18$ $18 < d_o \leq 31$ $d_o > 31$ | ± 1.0 ± 1.5 ± 2.5 ± 3.0 | 3.0 mm | $D_{iD} + 1 \leq D_i \leq D_{iD} + 4$ | $D_{iD} + 1 \leq D_i \leq D_{iD} + 6$ |
| Sheet · endless | +5.0 % -1.5 % | $\pm 2.0 \%$ | $d_o \leq 6$ $6 < d_o \leq 19$ $d_o > 19$ | ± 1.0 ± 1.5 ± 2.0 | 3.0 mm/m (Length/Width) - 3.0 mm (Thickness) | - | - |
| Tape | +5.0 % -1.5 % | $\pm 2.0 \%$ | $d_o = 3$ | -0.1 +1.5 | - | - | - |

Measurements in mm · D_i = inner diameter · d_o = Nominal thickness of product · D_{iD} = Nominal thickness of a tube

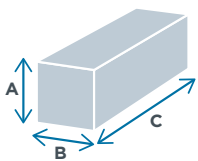
Kaiflex HFplus s2

Packaging types



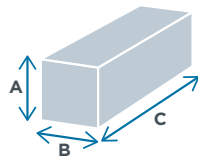
Tube · Length: 1.2 m

A: 385 mm
B: 400 mm
C: 1230 mm
Volume: 0.189 m³



Sheet · endless Width: 1 m OD coil: 40 cm

A: 410 mm
B: 410 mm
C: 1060 mm
Volume: 0.178 m³



Tape

A: 300 mm
B: 300 mm
C: 620 mm
Volume: 0.056 m³

General information

- Delivery in full packing units only.
- The pipe dimensions given in the tables refer to DIN EN 1057 for copper pipes and DIN EN 10255 for steel pipes.
- Kaimann accessories are to be used to ensure proper installation.

We create solutions

Always finding the best solution for customers – this simple resolution is what produces innovative ideas and continuous progress at Kaimann. The company is one of the leading suppliers of technology and innovation in elastomeric insulation and offers a broad product portfolio for a wide range of applications, e.g. in building services and technology as well as industry.

These products ensure higher energy efficiency and sustainability, combined with effective protection against corrosion, fire and noise. Thanks to environmental product declarations (EPDs), Kaimann insulation also provides more transparency for its life cycle assessment.



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