



kaiflex[®] ST

Designed to prevent condensation and energy losses

Flexible insulation with closed cell structure to save energy and stop condensation.

- Closed cell structure with in-built water vapour barrier
- Inherently resistant to corrosion
- Excellent thermal values minimise energy loss
- Flexible, dust and fibre free nature
- Inherent resistance to microbial growth



Kaiflex ST Technical Data

Material		Elastomeric foam based on synthetic rubber. Flexible Elastomeric Foam (FEF) in acc. to EN 14304	
Cell structure		Closed cell	
Colour		Black	
Upper temperature limit	Pipe Flat surfaces	+110 °C +85 °C	
Lower temperature limit		-50 °C (-200 °C)	See remark (1)
Thermal conductivity	λ_{10} at -10 °C at 0 °C at +10 °C	$0,034 + 7,2 \cdot 10^{-5} \vartheta + 1,2 \cdot 10^{-6} \vartheta^2$ $\leq 0,033 \text{ W/(m·K)}$ $\leq 0,034 \text{ W/(m·K)}$ $\leq 0,035 \text{ W/(m·K)}$	Test acc. to DIN EN ISO 8497 DIN EN 12667
Water vapour permeability	Moisture resistance factor μ	≥ 10.000 No separate vapour barrier required	Test acc. to DIN EN 13469 DIN EN 12086
EuroClass[°]	Tubes Sheets	B _L -s3, d0 B-s3, d0	Test acc. to DIN EN 13501-1
Practical fire behaviour		Self-extinguishing, no drips, does not support flame spread	
Fire performance		Class 0	In acc. with UK building regulations
Surface spread of Flame		Class 1	Test acc. to BS 476-7
Fire propagation	Total index of performance Sub Index 1	<12 <6	Test acc. to BS 476-6
Corrosion resistance		Satisfies requirements	In acc. to DIN 1988
Insulation material index number acc. to AGI	Tubes Sheets	36.12.02.05.04 36.07.02.05.04	
Health aspects		Fibre free: For high hygiene requirements Heavy metal (e.g. cadmium, lead) and formaldehyde free	
Resistance to	Mould and bacteria	no growth	In acc. with VDI 6022
Other attributes	pH-Value	CE marked Neutral	
Other certificates / approvals		FIW-audited (European Insulation Keymark Scheme for Thermal Insulation Products) UL-approved (UL94) FM-approved DNV, Lloyd's Register, See BG	Tubes: 035-FIW-2-008.0-05 Sheets: 035-FIW-2-008.0-02 In acc. with UL94 V-0, HF-1
Shelf life	Self-adhesive products	1 year	Store in a dry room at a typical relative humidity (between 50 % and 70 %) and room temperature (between 0 °C and +35 °C)
Tolerances		In acc. with DIN EN 14304:2013-04	
Outdoor applications		Needs protection against UV-radiation	See remark (2)

Remark (1) For temperatures below -50 °C please contact our Technical Support Team for advice.

Remark (2) To protect against UV-induced deterioration Kaiflex should be either painted using Kaifinish Color paint or covered with a suitable UV resistant cladding system within 1 day of being installed outdoors.

[°] The Euroclass rating applies to metallic or solid mineral substrates.

