

# Advanced Insulation Materials



## Using K-Flex Pipe Insulation to Comply with British Standard 5422 & Part L

K-Flex ST/SK is a Euroclass B S2 d0 closed cell nitrile rubber pipe insulation that is flexible, pre split and easy to install. It can be used to improve the energy efficiency of Heating and Hot Water Pipework and when used at the correct thickness it can be used to meet the requirements of BS5422: 2023 and Part L of the Building Regulations.

Nitrile rubber materials such as L'isolante K Flex have a high emissivity surface which makes them ideal for condensation control on low temperature pipework. K Flex is also resistant to mould, fungi and bacteria due to it's formulation making it a great choice for applications requiring a hygienic option.

K Flex ST/SK is suitable for all applications both civil and industrial that require the use of insulation material, without neglecting the price/quality relationship: refrigeration, air-conditioning, heating and plumbing, tanks, pipe fittings and water ducts.

The calculations provided in this document are correct at the time of calculation.

The installer is responsible for correctly installing the material and ensuring that the thicknesses used are correct for the application as intended.



## K-Flex Pipe Insulation

The below calculations are intended for Domestic Heating & Hot Water applications.

Please contact us for other applications

**BS5422 2023 Table 20A**

Pipe Size	K Flex ST & K Flex ST/SK
≤ 8.0mm	13mm
≤ 10.0mm	19mm
≤ 12.0mm	19mm
≤ 15.0mm	19mm
≤ 22.0mm	25mm
≤ 28.0mm	25mm
≤ 35.0mm	32mm
≤ 42.0mm	32mm
≤ 54.0mm (And Over)	32mm

**BS5422 2023 Table 20B**

Pipe Size	K Flex ST & K Flex ST/SK
≤ 8.0mm	19mm
≤ 10.0mm	25mm
≤ 12.0mm	25mm
≤ 15.0mm	25mm
≤ 22.0mm	32mm
≤ 28.0mm	32mm
≤ 35.0mm	40mm
≤ 42.0mm	40mm
≤ 54.0mm (And Over)	40mm



## K-Flex Pipe Insulation

# Euroclass B Pipe Lagging

### **MATERIAL**

Elastomeric insulation for all civil and industrial applications

### **THERMAL CONDUCTIVITY (EN ISO 8497)**

Thicknesses  $\leq$  25mm      Thicknesses  $>$  25mm

0,033 W/mK at 0 °C      0,036 W/mK at 0 °C

0,037 W/mK at 40 °C      0,038 W/mK at 40 °C

### **TEMPERATURE RANGE (EN 14707)**

-40 °C to +85 °C

### **FIRE PERFORMANCE (EN 13501-1)**

Euroclass BL-s2, d0

### **APPLICATION AREA**

- Prevents the risk of condensation and improves energy saving
- Resistant to mould, fungi and bacteria
- Light and flexible

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### **Who we are:**

Advanced Insulation Materials Ltd are an independent distributor of thermal insulation materials and ancillaries on Merseyside but covering the whole of the UK.

Our ethos is Right Insulation, Right Price, Right Time. Trusted since 2009

### **Independent Technical Advice**

AIM is an independent thermal insulation distributor that covers the whole of the UK. We work with the leading insulation manufacturers to bring you the very best insulation products, but more than that we bring you sound technical advice to complement our range of brand leading thermal insulation materials. As one of the few truly independent distributors of thermal pipe insulation, or pipe lagging as it is sometimes known, we are able to offer you a broad range of options with no product bias.

- **Free Delivery on orders over £250—usually in 2 to 3 days**
- **Hundreds of Thousands of metres in stock**
- **Next Day and Timed Delivery options available**
- **In House Technical Advice on a range of materials**
- **Broad range of Accessories**
- **Tracked to site deliveries**

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