

## BIW Isolierstoffe GmbH

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## Certified management system by:

- IATF16949
- ISO9001
- ISO13485
- ISO14001
- ISO50001
- IIP (Investors in People)



PRODUCT INFO

## INDUSTRIES AND APPLICATIONS



# THERBAFLEX LFP

## Typical uses

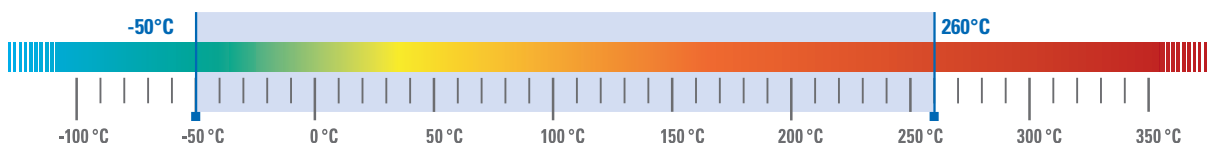
- Iron and steel works
- Electrical insulation
- Glass industry
- Line protection
- Machinery and plant engineering
- Metal foundries
- Welding and cutting technology

## Key properties

- Temperature resistance of -40°C to +260°C
- Short-term heat resistance up to +300°C
- Good protection against short-term partial overheating, like metal splash (up to 1600°C)
- Non-flammable, heat resistant and environmentally friendly basalt fibre - reverse knit as a substrate
- Self-extinguishing according to UL 1441 -VW1 (self-assessment)
- Excellent resistance to water, water-glycol mixture, salt spray as well as to fuels and lubricants during temporary exposure
- Excellent arc resistance
- Thick walled, thermally insulated
- High mechanical protection
- Halogen-free flame protection
- Free of plasticisers and heavy metals
- Good flexibility and stretchability
- Very good cost-performance ratio thanks to rational knitting procedure
- Colour: redbrown
- Nominal diameter of 10.0 mm to 100.0 mm possible



## Application temperature



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## THERBAFLEX LFP

### Product description

The THERBAFLEX LFP fire protection hose is made of a high-temperature-resistance, non-flammable, tubular knit basalt fibre with a thick-wall coating of a special LSR silicone. The basalt fibre is extracted from a natural rock and produced in an environmentally friendly production process with low CO<sub>2</sub> emissions into the atmosphere. The modified silicone coating of THERBAFLEX LFP has been provided with special additives to ensure outstanding fire protection and high thermal stabilisation. The THERBAFLEX LFP fire protection hose is exceptionally well-suited for thermal and electrical insulation and for mechanical protection of lines of all types (hydraulic lines, cooling hoses, cables, etc.). Partial overheating as in the case of metal splash (up to 1600°C) and exposure to flame (up to 1200°C) are possible for short periods of time. There is no melting or dripping. The coating can be partially damaged in the process. The softening point of the thick-walled inner hose made of textile glass fibres is at approximately 1050°C. The basalt fibre tubular knit is suitable for a working temperature up to approximately 700°C. The melting point of the basalt fibre is at approximately 1400°C. The main applications of the THERBAFLEX LFP fire protection hoses are metal foundries, welding and burning operations, glass industry, and iron and steel production. Undamaged, i.e. crack-free surfaces, ensure good dielectric strength. The THERBAFLEX LFP fire protection hose is distinguished by a good to very good resistance to a wide variety of media, such as oils, greases, diluted acids and lyes as well as UV and ionising radiation. The THERBAFLEX LFP fire protection hose is free of plasticisers, heavy metals and flame retardants containing halogen. THERBAFLEX LFP has a good resistance to arcing.

### Ecology, Environment & Safety

Ingredients compliant with VDA - requirements

IMDS listed

RoHS, GADSL compliant

Non-asbestos, basalt fibres non-carcinogenic, non hazardous to the environment, not hazardous to water

In use and disposal of the FIRE PROTECTIVE SLEEVE THERBAFLEX LFP there are no environmentally relevant co-products expected.

### BIW-Standard dimensions

#### THERBAFLEX LFP (Code: BRP)

On demand individual dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
10.0	±2.0	2.50	±0.70	25
15.0	±2.0	2.50	±0.70	25
18.0	±2.0	2.50	±0.70	25
22.0	±2.0	2.50	±0.70	25
25.0	±2.0	2.50	±0.70	25
30.0	±2.0	2.50	±0.70	25
35.0	±2.0	2.50	±0.70	25
40.0	±2.0	2.50	±0.70	25
50.0	±3.0	2.50	±0.70	25
60.0	±3.0	2.50	±0.70	25

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## BIW-Standard dimensions

### THERBAFLEX LFP (Code: BRP)

On demand individual dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
70.0	±3.0	2.50	±0.70	25
80.0	±5.0	2.50	±0.70	25
90.0	±5.0	2.50	±0.70	25
100.0	±5.0	2.50	±0.70	25