

BIW Isolierstoffe GmbH

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Certified management system by:

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



TECHNICAL DATASHEET

INDUSTRIES AND APPLICATIONS



THERMOFLEX 300R

Typical uses

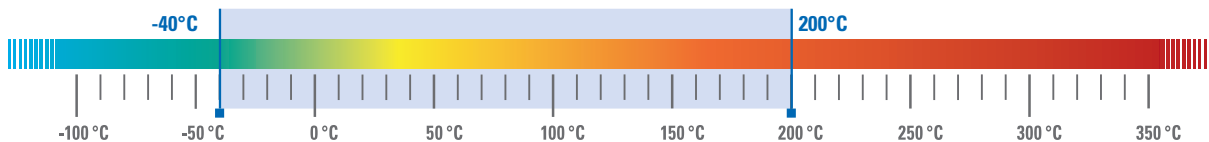
- Automotive industry
- E-mobility / hybrid
- Cable manufacture
- Line protection
- Machinery and plant engineering

Key properties

- Long-term heat resistance of -40°C to +200°C
- Short-term heat resistance up to +225°C
- Radiant heat resistance up to +300°C
- Good resistance to water, water-glycol mixture, salt spray, as well as to fuels and lubricants during temporary exposure
- Excellent flat silicone coating with a special heat reflection
- High thermal insulation by thick-walled
- High buckling resistance, good cut resistance
- Very good stretchability
- Good abrasion resistance
- No adhesion during insertion of lines
- Physiologically harmless
- Nominal diameter 3.0 mm to 30.0 mm



Application temperature



Product description

The protective sleeve THERMOFLEX 300R is a combination of a desized, thick-walled braided glass textile fibre and a silicone coating with radiant heat reflective aluminium filling. The resistance to high temperatures is possible because of a thick-walled glass silk and a aluminium-based special silicone, which has an exceptionally heat reflection. On demand the silver-gray-coloured THERMOFLEX 300R is available with a special setting in a self-extinguishing version (UL 1441 VW-1).

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When it comes to competence

INDUSTRIES AND APPLICATIONS



THERMOFLEX 300R

Application properties

Property	Standard	Test requirements	Result
Flame resistance	LV 312-3 FMVSS 302	Flame height 38 mm Flame exposure 15 s	Self-extinguishing

Ageing

Property	Standard	Test requirements	Result
Short-term ageing 240h / 225°C	LV 312-3	Winding test	Requirements achieved
Long-term ageing 3000h / 200°C	LV 312-3	Winding test	Requirements achieved

Mechanical / physical properties

Property	Standard	Test requirements	Result
Abrasion resistance	LV 312-3	Test at room temperature	Classification B

Compatibilities

Medium	Standard	Test requirements	Result
Ad Blue	Based on DIN EN 60684 LV 312-3	Storage time 240h/200°C Chemical externally spread	Requirements achieved
Automatic transmission oil	Based on DIN EN 60684 LV 312-3	Storage time 240h/200°C Chemical externally spread	Requirements achieved
Biodiesel	Based on DIN EN 60684 LV 312-3	Storage time 240h/200°C Chemical externally spread	Requirements achieved
Break fluid	Based on DIN EN 60684 LV 312-3	Storage time 240h/200°C Chemical externally spread	Requirements achieved
Multigrade engine oil	Based on DIN EN 60684 LV 312-3	Storage time 240h/200°C Chemical externally spread	Requirements achieved
Grease	Based on DIN EN 60684 LV 312-3	Storage time 240h/200°C Chemical externally spread	Requirements achieved
Water-Glycol-mixture	Based on DIN EN 60684 LV 312-3	Storage time 240h/200°C Chemical externally spread	Requirements achieved

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THERMOFLEX 300R

Ecology, Environment & Safety

Ingredients compliant with VDA requirements

IMDS listed

RoHS, GADSL compliant

Non-asbestos, textile glass fibres non-carcinogenic, non-hazardous to the environment, non-hazardous to water.

When using and disposing the THERMOFLEX 300R protective sleeve there are no environmentally relevant by-products expected.

BIW-Standard dimensions

THERMOFLEX 300R (Code: GHX)

On demand individual dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
3.0	±0.30	1.20	±0.30	100
4.0	±0.30	1.50	±0.30	100
5.0	±0.30	1.50	±0.30	100
6.0	±0.30	1.50	±0.30	100
7.0	±0.30	1.50	±0.30	100
8.0	±0.30	1.50	±0.30	100
9.0	±0.30	1.50	±0.30	100
10.0	±0.50	1.50	±0.30	100
11.0	±0.50	1.50	±0.30	50
12.0	±0.50	1.50	±0.30	50
13.0	±0.50	1.50	±0.30	50
14.0	±0.50	1.50	±0.30	50
15.0	±0.50	1.50	±0.30	50
16.0	±0.50	1.50	±0.30	50
17.0	±0.50	1.50	±0.30	50
18.0	±0.50	1.50	±0.30	50
19.0	±0.50	1.50	±0.30	50
20.0	±0.80	1.50	±0.50	25
21.0	±0.80	1.50	±0.50	25
22.0	±0.80	1.50	±0.50	25

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BIW-Standard dimensions

THERMOFLEX 300R (Code: GHX)

On demand individual dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
23.0	±0.80	1.50	±0.50	25
24.0	±0.80	1.50	±0.50	25
25.0	±0.80	1.50	±0.50	25
26.0	±0.80	1.50	±0.50	25
27.0	±0.80	1.50	±0.50	25
28.0	±0.80	1.50	±0.50	25
29.0	±0.80	1.50	±0.50	25
30.0	±0.80	2.00	±0.50	25