

## BIW Isolierstoffe GmbH

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## Certified management system by:

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



*When it comes  
to competence*

TECHNICAL DATASHEET

## INDUSTRIES AND APPLICATIONS



## ISOTEX F

### Typical uses

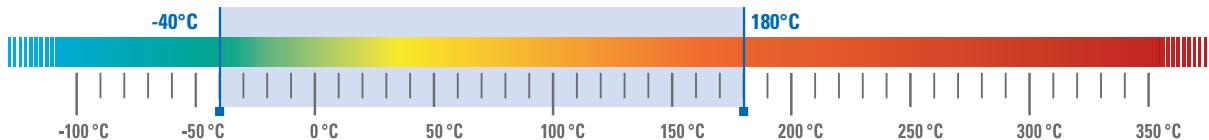
- Automotive industry
- E-mobility / hybrid
- Cable manufacture
- Line protection

### Key properties

- Long-term heat resistance of -40°C to +180°C
- Short-term heat resistance up to +205°C
- Horizontal self-extinguishing
- Good resistance to water, water-glycol mixture, salt spray, as well as to fuels and lubricants during temporary exposure
- High mechanical (impact)-protection
- Acoustic insulation (clatter protection)
- Good flexibility and stretchability
- Resistant to UV- and gamma-radiation
- Good resistance to temporary effect of fuels and lubricants
- Physiologically harmless
- Excellent heat insulation
- Colours: red braun, black
- Nominal diameter 1.0 mm to 30.0 mm



### Application temperature



### Product description

ISOTEX F protective sleeve is a combination of a braided textile glass fabric and a silicone foam coating. The silicone foam ensures with a wall thicknesses of up to 5.0 mm a very good thermal insulation and excellent mechanical protection against impact. The foam structure also leads to significant acoustic insulation (clatter protection). The resistance is very good to high temperatures and aggressive media. ISOTEX F protective sleeve is available in a special design with a vertical self-extinguishing setting according to UL 1441 VW-1.

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All information shown in this data sheet is based on our testing and experience and is to the best of our knowledge. It represents an accurate presentation of the product. The data are typical values and are not to be used as the end use specification. It is the customers' responsibility to test the suitability of the material for their application. Any recommendations for use are for guidance only and are offered without warranty or guarantee. Subject to change without notice.

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INDUSTRIES AND APPLICATIONS



**ISOTEX F**

**Application properties**

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

**Mechanical / physical properties**

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

**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, nont- hazardous to water

When using and disposing of the ISOTEX F protective sleeve there are no environmentally relevant by-products expected.

**BIW-Standard dimensions**

**ISOTEX F (Code: GSS)**

On demand individual dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
1.0	±0.2	1.0	±0.4	100
2.0	±0.3	2.0	±0.5	100
3.0	±0.5	2.0	±0.5	100
4.0	±0.6	2.0	±0.5	100
5.0	±1.0	2.0	±0.5	100
6.0	±1.0	2.0	±0.5	100
7.0	±1.0	2.0	±0.5	100
8.0	±1.0	2.0	±0.5	100
9.0	±1.0	2.0	±0.5	100
10.0	±1.0	2.0	±0.6	100
11.0	±1.5	2.0	±0.6	50
12.0	±1.5	2.0	±0.6	50
13.0	±1.5	2.0	±0.6	50
14.0	±1.5	2.0	±0.6	50

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## ISOTEX F

## BIW-Standard dimensions

### ISOTEX F (Code: GSS)

On demand individual dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
15.0	±1.5	2.0	±0.6	50
16.0	±1.5	2.0	±0.7	50
17.0	±1.5	2.0	±0.7	50
18.0	±1.5	2.0	±0.7	50
19.0	±1.5	2.0	±0.7	50
20.0	±2.0	2.5	±0.8	50
21.0	±2.0	2.5	±0.8	25
22.0	±2.0	2.5	±0.8	25
23.0	±2.0	2.5	±0.8	25
24.0	±2.0	2.5	±0.8	25
25.0	±2.0	2.5	±1.0	25
26.0	±2.0	2.5	±1.0	25
27.0	±2.0	2.5	±1.0	25
28.0	±2.5	2.5	±1.0	25
29.0	±2.5	2.5	±1.0	25
30.0	±2.5	5.0	±1.0	25