

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



ISOTEX ROH

Typical uses

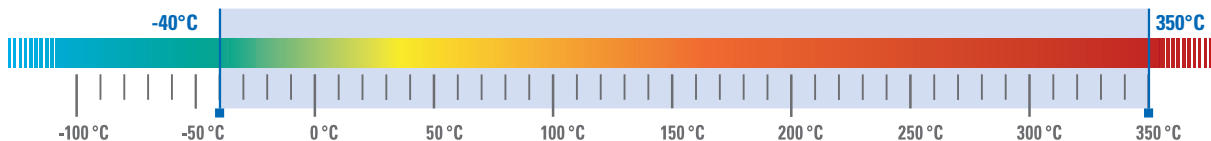
- Automotive industry
- Cable manufacture
- Line protection
- Transformers construction

Key properties

- Long-term heat resistance of -40°C to $+350^{\circ}\text{C}$
- Short-term heat resistance up to $+450^{\circ}\text{C}$
- Good resistance to impregnating varnishes, impregnating resins, solvents, acids, alkalis, resin systems, etc.
- Extremely flexible and tensible
- Good tear resistance
- Clatter protection
- Nominal diameter 0,5 mm to 60,0 mm



Application temperature



Product description

The ISOTEX ROH consists of a thermally heavy duty textile fibreglass (E-glass). The hose is suitable for the highest thermal loading. The protective function remains largely intact even in the case of partial thermal overloading due to the excellent temperature properties of the textile glass hose. With the specially braided design, the ISOTEX ROH becomes extremely extensible and flexible. The ISOTEX ROH is designed as a protective hose without a defined breakdown voltage.

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INDUSTRIES AND APPLICATIONS



ISOTEX ROH

Application properties

Property	Standard	Test requirements	Result
Flame resistance	FMVSS 302	Flame height 38 mm Flame exposure 15 s	Self-extinguishing, classification A

Mechanical / physical properties

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

Compatibilities

Medium	Standard	Test requirements	Result
Ad Blue	based on DIN EN 60684 LV 312-3 Customer specifications	Storage time 240h, 480h, 720h, 1000h 180°C, winding test	Requirements achieved
Automatic transmission oil	based on DIN EN 60684 LV 312-3 Customer specifications	Storage time 240h, 480h, 720h, 1000h 180°C, winding test	Requirements achieved
Biodiesel	based on DIN EN 60684 LV 312-3 Customer specifications	Storage time 240h, 480h, 720h, 1000h 180°C, winding test	Requirements achieved
Break fluid	based on DIN EN 60684 LV 312-3 Customer specifications	Storage time 240h, 480h, 720h, 1000h 180°C, winding test	Requirements achieved
Diesel	based on DIN EN 60684 LV 312-3 Customer specifications	Storage time 240h, 480h, 720h, 1000h 180°C, winding test	Requirements achieved
Intensive cleaner	based on DIN EN 60684 LV 312-3 Customer specifications	Storage time 240h, 480h, 720h, 1000h 180°C, winding test	Requirements achieved
Cold cleaning agent	based on DIN EN 60684 LV 312-3 Customer specifications	Storage time 240h, 480h, 720h, 1000h 180°C, winding test	Requirements achieved

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Compatibilities

Medium	Standard	Test requirements	Result
Fuel FAM-B	based on DIN EN 60684 LV 312-3 Customer specifications	Storage time 240h, 480h, 720h, 1000h 180°C, winding test	Requirements achieved
Radiator antifreeze	based on DIN EN 60684 LV 312-3 Customer specifications	Storage time 240h, 480h, 720h, 1000h 180°C, winding test	Requirements achieved
Multigrade engine oil	based on DIN EN 60684 LV 312-3 Customer specifications	Storage time 240h, 480h, 720h, 1000h 180°C, winding test	Requirements achieved
Engine compartment sealing	based on DIN EN 60684 LV 312-3 Customer specifications	Storage time 240h, 480h, 720h, 1000h 180°C, winding test	Requirements achieved
Grease	based on DIN EN 60684 LV 312-3 Customer specifications	Storage time 240h, 480h, 720h, 1000h 180°C, winding test	Requirements achieved
Transformer oil	based on DIN EN 60684 LV 312-3 Customer specifications	Storage time 24h at room temperature winding test	Requirements achieved
Impregnation resin Voltatex 4200	based on DIN EN 60684 LV 312-3 Customer specifications	Storage time 24h at room temperature winding test	Requirements achieved
Impregnation resin Voltatex 4250	based on DIN EN 60684 LV 312-3 Customer specifications	Storage time 24h at room temperature winding test	Requirements achieved
Water-Glycol-mixture	based on DIN EN 60684 LV 312-3 Customer specifications	Storage time 24h at room temperature winding test	Requirements achieved

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ISOTEX ROH

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

The textile glass sleeve requires compliance with the industrial hygiene. Workplace ventilation has to be turned away from the worker, sensitive individuals may get slight skin irritation

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

BIW-Standard dimensions

ISOTEX ROH (Code: GRO)

On demand individual dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
0.5	±0.3	0.3	+0.3	200
1.0	±0.3	0.6	±0.3	200
2.0	±0.3	0.6	±0.3	200
3.0	±0.3	0.6	±0.3	200
4.0	±0.3	0.6	±0.3	200
5.0	±0.5	0.6	±0.3	200
6.0	±0.5	0.6	±0.3	100
7.0	±0.5	0.6	±0.3	100
8.0	±0.5	0.6	±0.3	100
9.0	±0.5	0.6	±0.3	100
10.0	±1.0	0.8	±0.3	100
11.0	±1.0	0.8	±0.3	100
12.0	±1.0	0.8	±0.3	100
13.0	±1.0	0.8	±0.3	100
14.0	±1.0	0.8	±0.3	100
15.0	±1.0	0.8	±0.4	100
16.0	±2.0	0.8	±0.4	100
17.0	±2.0	0.8	±0.4	100
18.0	±2.0	0.8	±0.4	100

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BIW-Standard dimensions

ISOTEX ROH (Code: GRO)

On demand individual dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
19.0	±2.0	0.8	±0.4	100
20.0	±2.5	1.2	±0.4	50
21.0	±2.5	1.2	±0.4	50
22.0	±2.5	1.2	±0.4	50
23.0	±2.5	1.2	±0.4	50
24.0	±2.5	1.2	±0.4	50
25.0	±2.5	1.2	±0.4	50
26.0	±3.0	1.2	±0.4	50
27.0	±3.0	1.2	±0.4	50
28.0	±3.0	1.2	±0.4	50
29.0	±3.0	1.2	±0.4	50
30.0	±3.0	1.5	±0.5	25
35.0	±5.0	1.5	±0.5	25
40.0	±5.0	1.5	±0.5	25
45.0	±5.0	1.5	±0.5	25
50.0	±5.0	1.5	±0.5	25
60.0	±5.0	2.0	±0.5	25