Pregelstraße 2-5

D-58256 Ennepetal

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iiiio Obiwi.do

Certified management system by:

- IATF16949
- ISO9001
- ISO13485
- ISO14001
- ISO50001



TECHNICAL DATASHEET

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INDUSTRIES AND APPLICATIONS



















Typical uses

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

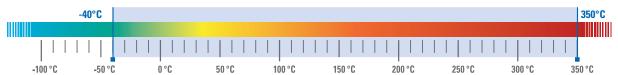
Key properties

- Long-term heat resistance of -40°C to +350°C
- Short-term heat resistance up to +450°C
- Good resistance to water, salt spray, cleaning agents, transformer oil, impregnating resins as well as to fuels and lubricants during temporary exposure
- High buckling and bending resistance, good cut resistance
- flexible
- Available in dyed version
- Nominal diameter 0,5 mm to 35,0 mm (larger Ø on demand)





Application temperature



Product description

ISOTEX RI consists of high thermally resistant textile glass fibre (e-glass) with a silicone resin impregnation. The combination of these materials allows the use of the protective sleeve in the automotive sector under high thermal stress. Even on extrem situations the sleeve resists thermal load up to 450 °C. The protective function still works largely after partial thermal overstress because of the excellent thermal properties of textile glass sleeve. ISOTEX RI is also characterized by good resistance against short-term contact with fuels and lubricants. Water and salt spray does not affect the function of the sleeve. ISOTEX RI is suitable for longer cable sets because of its good buckling resistance and it can by dyed in a wide range of colours. ISOTEX RI is designed as protection sleeve, without a defined dielectric strength.

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ISOTEX RI

Application properties

INDUSTRIES AND APPLICATIONS

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

Ageing

Property	Standard	Test requirements	Result
Short-term ageing 375h / 200°C	based on LV312-3	Winding Test	Requirements achieved

Mechanical / physical properties

Property	Standard	Test requirements	Result
Abrasion resistance	LV312-3	Test at room temperature	Classification A

Compatibilities

Medium	Standard	Test requirements	Result	
Automatic transmission oil	Based on DIN EN 60684 LV 312-3 customer specification	Storage time 24h at room temperature Chemical externally spread	Requirements achieved	
Biodiesel	Based on DIN EN 60684 LV 312-3 customer specification	Storage time 24h at room temperature Chemical externally spread	Requirements achieved	
Break fluid	Based on DIN EN 60684 LV 312-3 customer specification	Storage time 24h at room temperature Chemical externally spread	Requirements achieved	
Multigrade engine oil	Based on DIN EN 60684 LV 312-3 customer specification	Storage time 24h at room temperature Chemical externally spread	Requirements achieved	
Grease	Based on DIN EN 60684 LV 312-3 customer specification	Storage time 24h at room temperature Chemical externally spread	Requirements achieved	
Water-Glycol-mixture	Based on DIN EN 60684 LV 312-3 customer specification	Storage time 24h at room temperature Chemical externally spread	Requirements achieved	

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

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

BIW-Standard dimensions

ISOTEX RI (Code: GSH)

On demand individual colours and dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
0.5	+0.30	0.30	+0.30	200
1.0	±0.30	0.60	±0.30	200
2.0	±0.30	0.60	±0.30	200
3.0	±0.30	0.60	±0.30	200
4.0	±0.30	0.60	±0.30	200
5.0	±0.30	0.60	±0.30	200
6.0	±0.30	0.60	±0.30	100
7.0	±0.30	0.60	±0.30	100
8.0	±0.30	0.60	±0.30	100
9.0	±0.30	0.60	±0.30	100
10.0	±0.50	0.80	±0.30	100
11.0	±0.50	0.80	±0.30	100
12.0	±0.50	0.80	±0.30	100
13.0	±0.50	0.80	±0.30	100
14.0	±0.50	0.80	±0.30	100
15.0	±0.50	0.80	±0.30	100
16.0	±0.50	0.80	±0.30	100
17.0	±0.50	0.80	±0.30	100
18.0	±0.50	0.80	±0.30	100
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INDUSTRIES AND APPLICATIONS

















BIW-Standard dimensions

ISOTEX RI (Code: GSH)

On demand individual colours and dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
19.0	±0.50	0.80	±0.30	100
20.0	±0.80	1.20	±0.40	50
21.0	±0.80	1.20	±0.40	50
22.0	±0.80	1.20	±0.40	50
23.0	±0.80	1.20	±0.40	50
24.0	±0.80	1.20	±0.40	50
25.0	±0.80	1.20	±0.40	50
26.0	±0.80	1.20	±0.40	50
27.0	±0.80	1.20	±0.40	50
28.0	±0.80	1.20	±0.40	50
29.0	±0.80	1.20	±0.40	50
30.0	±1.20	1.60	±0.50	50

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