

- IATF16949
- ISO9001
- ISO13485
- ISO14001
- ISO50001

INDUSTRIES AND APPLICATIONS



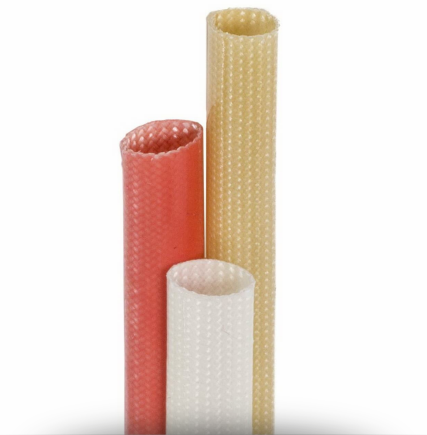
ISOTEX LSI

Typical uses

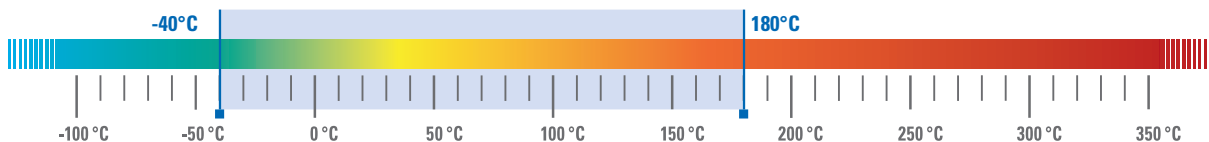
- Automotive industry
- E-mobility / hybrid
- Electrical motors construction
- Cable manufacture
- Stator construction

Key properties

- Long-term heat resistance of -40°C to $+180^{\circ}\text{C}$
- Short-term heat resistance up to $+205^{\circ}\text{C}$
- Horizontal self-extinguishing
- Good resistance to water, salt spray, cleaning agents, transformer oil, impregnating resins as well as to fuels and lubricants during temporary exposure
- Very good fibre glass impregnation by special immersion process
- Good cut and abrasion resistance
- High buckling strength
- Wide colour spectrum
- Nominal diameter 0,5 mm to 12,0 mm



Application temperature



Product description

The ISOTEX LSI consists of a glass silk braid (textile glass) and a silicone impregnation that is applied in a special immersion process. The coating material is a silicone which in various versions ensures short-term temperature resistance of up to 205°C . Due to the silicone impregnation, the textile glass filaments are excellently soaked, thereby ensuring that no fibreglass dust is given off during production (cutting, chopping, etc.). The combination of a textile glass braid and silicone results in a particular elasticity, flexibility and extensibility of the ISOTEX LSI protective hose. The ISOTEX LSI can be worked very well in cable production.

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ISOTEX LSI

Application properties

Property	Standard	Test requirements	Result
Electrical strength	DIN EN 60684	Test at room temperature	> 2,50 kV
Flame resistance	FMVSS 302	Flame height 38 mm Flame exposure 15 s	Self-extinguishing

Compatibilities

Medium	Standard	Test requirements	Result
Ad Blue	Based on DIN EN 60684 LV 312-3	Storage time 24h at room temperature Chemical externally spread	Requirements achieved
Break fluid	Based on DIN EN 60684 LV 312-3	Storage time 24h at room temperature Chemical externally spread	Requirements achieved
Diesel	Based on DIN EN 60684 LV 312-3	Storage time 24h at room temperature Chemical externally spread	Requirements achieved
Radiator antifreeze	Based on DIN EN 60684 LV 312-3	Storage time 24h at room temperature Chemical externally spread	Requirements achieved
Multigrade engine oil	Based on DIN EN 60684 LV 312-3	Storage time 24h at room temperature Chemical externally spread	Requirements achieved
Grease	Based on DIN EN 60684 LV 312-3	Storage time 24h at room temperature Chemical externally spread	Requirements achieved
Water-Glycol-mixture	Based on DIN EN 60684 LV 312-3	Storage time 24h at room temperature Chemical externally spread	Requirements achieved

Ecology, Environment & Safety

Ingredients compliant with VDA requirements

IMDS listed

RoHS, GADSL compliant

Non-hazardous to the environment, non-hazardous to water

Non-asbestos, glass fibres non-carcinogenic

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

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Certified management system by:

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TECHNICAL DATASHEET

INDUSTRIES AND APPLICATIONS

**ISOTEX LSI****BIW-Standard dimensions****ISOTEX LSI (Code: GSL)**

On demand individual colours and dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
0.5	±0.1	0.5	±0.3	100
1.0	±0.2	0.6	±0.3	100
2.0	±0.2	0.6	±0.3	100
3.0	±0.2	0.6	±0.3	100
4.0	±0.2	0.6	±0.3	100
5.0	±0.3	0.6	±0.3	100
6.0	±0.3	0.6	±0.3	100
7.0	±0.3	0.6	±0.3	50
8.0	±0.3	0.6	±0.3	50
9.0	±0.3	0.6	±0.3	50
10.0	±0.3	0.6	±0.3	50
11.0	±0.4	0.6	±0.3	50
12.0	±0.4	1.0	±0.4	50