

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



ISOFLEX H 250 perforated

Typical uses

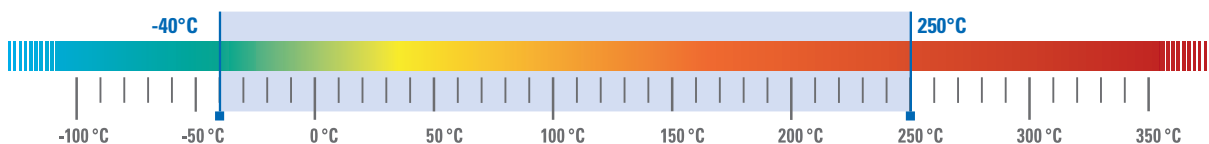
- Automotive industry
- E-mobility / hybrid
- Cable manufacture
- Line protection

Key properties

- Long-term heat resistance of -40°C to $+250^{\circ}\text{C}$
- Short-term heat resistance up to $+300^{\circ}\text{C}$
- Perforated surface
- Good resistance to water, water-glycol mixture, salt spray, as well as to fuels and lubricants during temporary exposure
- High abrasion resistance
- Good elongation and compressibility
- Very flexible
- Excellent value for money through efficient knitting process
- Physiologically harmless
- Colour: orange
- Nominal diameter 12,0 to 17,0 mm



Application temperature



Product description

The ISOFLEX H 250 perforated protective hose is a combination of a knitted glass fabric and a silicone coating specially developed for high mechanical loads in production and operation. The resulting tough knitting process in combination with the silicone coating provides a compelling level of quality. The special design and the efficient production process ensure a smooth inner and outer surface, good compression with special circularity and extraordinary ductility. These properties result in a simple and effective processing in cable construction. The resistance of ISOFLEX H 250 perforated against high temperatures and aggressive media is very good. ISOFLEX H 250 perforated is especially suitable for E-mobility, the orange silicone coating also serves as a signal color. The perforation ensures that liquids that have penetrated into the inner tube can for the most part drain off or out of the hose again.

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PAGE 1 OF 2

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Application properties

Property	Standard	Test requirements	Result
Flame resistance	FMVSS 302 LV 312-3	Flame height 38 mm Flame exposure 15 s	Fire classification A

Mechanical / physical properties

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

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, not hazardous to water

When using and disposing of the ISOFLEX H 250 perforated protective sleeve there are no environmentally relevant by-products expected.

BIW-Standard dimensions

ISOFLEX H 250 perforated (Code: GS2)

On demand individual dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
12.0	+0.5	0.5	+0.2	100
13.0	+0.5	1.0	+0.3	100
14.0	+0.5	1.0	+0.3	100
15.0	+0.5	1.0	+0.3	100
16.0	+0.7	1.0	+0.3	100
17.0	+0.7	1.6	+0.5	100