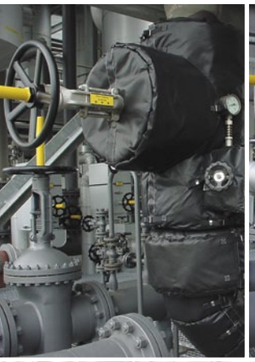
ISOFLEX®- Insulating jackets

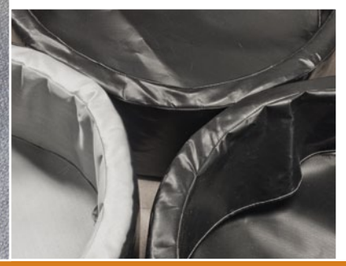
... committed to quality

BOHLE SEIT 1924
GRUPPE

ISOFLEX®- Insulating jackets







- The safe alternative to the traditional sheet metal cladding, providing a number of extra benefits.
- Made from highly flexible materials. This makes them ideal for use in applications where other, more rigid, insulating systems are unsuitable.
- Particularly suitable for use in locations where insulation needs to be removed frequently in order to carry out repair and maintenance work.
- Significantly reduce injury hazards to which fitters are exposed while carrying out maintenance work. They do not have any sharp edges.
- Resistant to acids, alkalis, oils, greases, humidity, UV radiation and the effects of weather, depending on the choice of surface material. The envelope formed by ISOFLEX® insulating jackets prevents contamination of the insulation material.
- Impressive heat and sound insulation properties.
- Ensure excellent sound insulation values through the high gross density (170 kg/m3) of the insulation material. When you need to meet particularly demanding sound insulation values, we can provide insulating jackets with the necessary extra intermediate layers.
- Due to the various specialised glass fibre types available, they can be used at temperatures of up to 1100° C.
- Long-lived when handled appropriately and particularly environmentally friendly thanks to their reusability. This feature makes time-consuming and costly disposal of used insulating materials (mineral fibre, for example) unnecessary.
- Made from glass fibre, by carefully cutting and sewing fabric to size to form an envelope, which is then filled with insulating material. The covering and jacketing parts of the insulating jacket are then skilfully sewn together to obtain the required shape. The jackets are fastened in place using Velcro tape and frieze band as well as clasps and buckles.
- Delivered within short lead times thanks to the use of a CAD-supported design program. As our design drawings are stored safely for later use, we can fill new orders from a customer without any need to re-measure.
- Can be removed and put back in place quickly and easily, even by inexperienced staff, to allow maintenance work. Reduced downtime results in improved performance.

For increased sustainability in production

ENERGY

- The high-quality glass fibre products we use provide efficient thermal insulation even where you need to use a thin layer of insulation [ΔT at 50 °C = 0.037 W/m * K] and even at max. temperatures of up to 1100 °C.

TIME

- Velcro tape, clasps and buckles allow the jackets to be removed and put back in place quickly and easily without any need for tools. This makes maintenance work faster.

SAFETY

No downtime due to injury, as ISOFLEX® insulating jackets have no sharp edges or hot surfaces.

Sound is efficiently absorbed by the high gross density of the materials used, protecting your staff's hearing.

The jackets also ensure the safety of your employees' respiratory tracts: high-grade fibre-glass and mineral wool materials are encased safely inside layers of protective fabric.

No danger of fire! The jackets' excellent heat insulation properties protect employees from any burn hazards while working close to insulated fittings.





Materials used for ISOFLEX® - Insulating jackets

ISO-PTFE *anti-static*

Description:
Fibre made of glass fibre filaments with PTFE coating on one side. The PTFE coating (Teflon®) has excellent anti-stick properties.
Colour: Standard version in black (optionally available in grey)

Area of application:
Outer coverings for insulation padding / mats, anti-abrasive protective covers

Technical Data:
Fabric in Atlas weave
Weight of fabric: 425 g/m³ +/-10 %
Total weight with coating: 560 g/m³ +/-10 %
Thickness: 0.38 mm +/-10%
Tensile strength: Warp > 3500 N/5 cm
Weft > 2600 N/5 cm
Temperature range: - 50 °C to 280 °C
Short-term temperature resistanceup to 315 °C

Fire resistance according to FMVSS302:
Passed
Resistance to fluids:
Good resistance to industrial substances and cleaning agents

ISO-ALU

Description:
Fabric made of glass fibre filaments with aluminized polyester film adhesively applied to one side. This flexible fabric provides good thermal resistance. The outer coating is ideally designed to keep steam out and has excellent reflective properties
Colour: silver

Area of application:
At relatively low temperatures as protective cladding and flexible insulation

Technical details:
Fabric in broken twill weave
Weight of fabric: 650 g/m³ +/-5 %
Total weight with coating: 800 g/m³ +/-5 %
Thickness: 0.85 mm +/-5 %
Tensile strength: Warp >650 N+/-10 %
Weft > 550 N+/-10 %
Temperature range:
Outer surface coated with high-temperature-resistant PET film coating = resistant up to 250 °C
Inner surface with high-temperature resistant polyurethane layer = resistant up to 200 °C

Fire resistance according to FMVSS302:
Passed

ISO-PU

Description:
Fabric made of glass fibre filaments with a flame-resistant polyurethane coating. The Al pigments impregnated into it guarantee good heat reflection and provide an attractive alternative to aluminium foil clad fabrics.
Colour: silver-grey

Area of application:
Flexible insulation, soldering protection, fire-retardant hangings, smoke-retardant hangings, expansion joints and seals

Technical data:
Fabric in broken twill weave
Weight of fabric: 660 g/m³ +/-5 %
Total weight with coating: 685 g/m³ +/-10 %
Thickness: 0.80 mm +/-10 %
Tensile strength: Warp > 4600 N/5 cm
Weft > 4400 N/5 cm
Temperature range:
Untreated fabric up to 550 °C continuous
Coated fabric up to 250 °C continuous

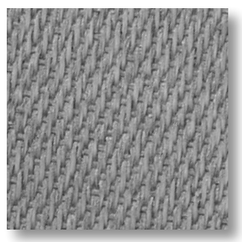
ISO-Silikon

Description:
Fabric made of glass fibre filaments with a silicon rubber coating on one side. This coating (weighing approx. 90 g/m³) contains aluminium pigments.
Colour: silver-grey (also available with optional coating on underside)

Area of application:
Expansion joints, flexible insulation, soldering protection, fire protection and sealing

Technical data:
Fabric in broken twill weave
Weight of fabric: 420 g/m³ +/-10 %
Total weight with coating: 510 g/m³ +/-10 %
Thickness: 0.45 mm +/-10 %
Tensile strength: Warp > 3900 N/5 cm
Weft > 2600 N/5 cm
Temperature range:
- 40 °C to 250 °C
(for short periods up to 300 °)

Fire resistance according to FMVSS302:
Passed
Resistance to fluids:
Good resistance to industrial substances and cleaning agents



ISO-VA

Description:
This product consists of a glass fibre fabric with a flame-resistant polyurethane layer. The Al pigment impregnated into it ensure good heat reflection and provide an attractive alternative to aluminium foil clad fabrics.
Colour: silver-grey

Area of application:
Flexible insulation, weld protection, fire-retardant hangings, smoke-retardant hangings, expansion joints and seals

Technical data:
Fabric in Atlas weave ISO 9354
Weight of fabric: 660 g/m³ +/-5 %
Total weight with coating: 680 g/m³ +/-10 %
Thickness: 0.70 mm +/-10 %
Tensile strength: Warp > 2500 N/5 cm
Weft > 2500 N/5 cm
Temperature range:
Untreated fabric up to 550 °C continuous
Coated fabric up to 200 °C continuous

Fire rating:
BS 476: Part 7, 1997
Approvals:
SBG Approval
No. 114.180 BWB Approval

ISO-HT-VA 750

Description:
Fabric made of glass fibre filaments with a PU layer and aluminium pigments applied to one surface, VA reinforced and flame-resistant. This product has very good resistance to chemicals, excellent physical properties and can take very heavy mechanical loading.
Colour: Grey

Area of application:
Flexible insulation in high-temperature zones, exhaust conduits

Technical data:
Plain-weave fabric **DIN 61 101-1**
Weight of fabric: 1275 g/m³ +/- 8 %
Thickness: 1.60 mm +/- 10 %
Tensile strength: Warp > 3000 N/5 cm
Weft > 1500 N/5 cm
Temperature range:
Fully fitted up to 700 °C
(for short periods up to 750 °C)

ISO-HT 700

Description:
This product is a glass fibre fabric for covering and thermal/acoustic insulation.
Colour: natural

Area of application:
Flexible insulation, expansion joints, thermal and acoustic insulation

Technical data:
Plain-weave fabric **DIN 61161/1+2**
Composition: 100 % glass
Weight of fabric: 620 g/m³ +/- 8 %
Thickness: 0.80 mm +/- 10 %
Tensile strength: Warp >3000 N/5 cm
Weft > 2100 N/5 cm
Temperature range:
With no mechanical load up to 700 °C continuous

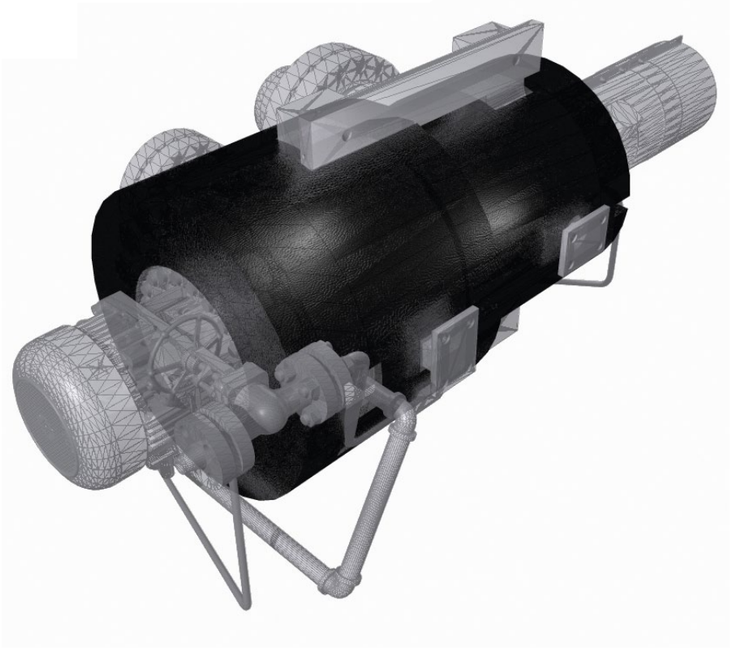
ISO-HT-VA 1000

Description:
Fabric made of glass fibre filaments with V4A core, consists of textured and twisted yarn. The carefully processed yarn guarantees exceptional insulation properties. This product is very resistant to chemicals, has outstanding physical properties and can take heavy mechanical loads.
Colour: silver-grey

Area of application:
Flexible insulation in high-temperature zones, exhaust conduits

Technical data:
Plain-weave fabric **DIN 61 101-1**
Weight of fabric: 780 g/m³ +/- 10 %
Thickness: 1.20 mm +/- 10 %
Tensile strength: Warp >1500 N/5 cm
Weft > 800 N/5 cm
Temperature range: up to 1.000 °C continuous

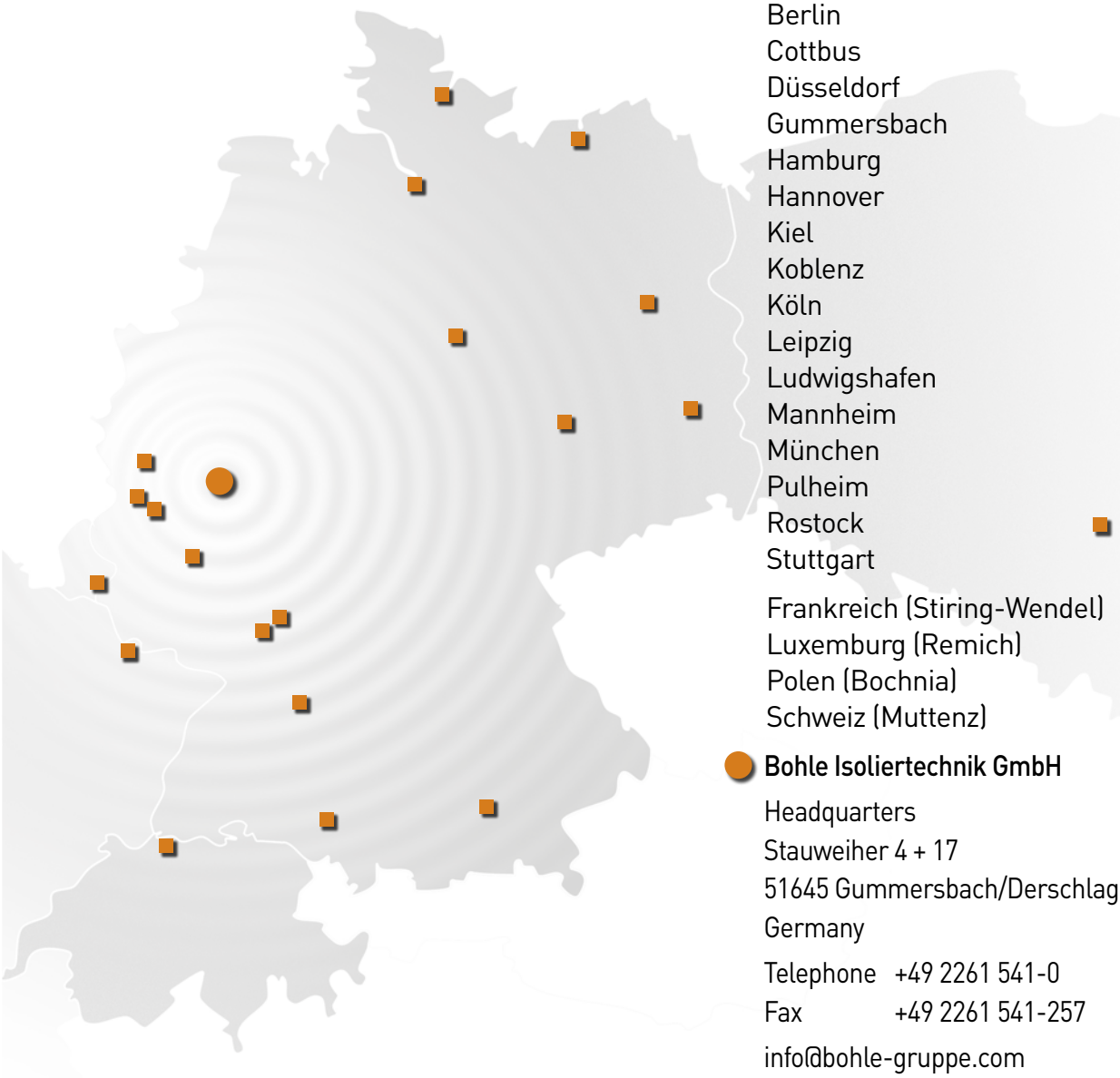
ISOFLEX®- Insulating jackets multifunctional and safe!



Areas of application	Industry	Excellent insulation properties	Safe handling	Quick access	Safety barrier to physical contact	Flexible shaping	Does not absorb liquids	Non-flammable	Easy-clean properties	Temperature-resistant up to 1100 °C	Good sound insulation properties
Filling and loading processes	Rail loading	■	■	■	■	■	■	■	■		
	HGV loading										
	Marine loading										
Storage container heads	All industries	■	■	■	■	■		■	■	■	■
Sampling points	Chemicals	■	■	■	■	■	■	■	■		
Valves and flanges	All industries	■	■	■	■	■	■	■	■		■
Tight spaces in machinery and pipework	All industries	■	■	■	■	■	■	■	■		■
Heat transfer media - oil pipelines	Chemicals	■	■	■	■	■	■	■	■		
High-temperature zones	All industries	■	■	■	■	■	■	■	■	■	
Process control measuring points	All industries	■	■	■	■	■	■	■	■	■	
Manholes	All industries	■	■	■	■	■			■	■	
Compensators	All industries	■	■	■	■	■		■	■	■	■
Flexible steel hoses	All industries	■	■		■	■			■	■	
Extruders; areas around screw conveyors	Plastics – injection moulding	■	■	■	■	■		■	■	■	
Turbines	Power plants	■	■	■	■	■			■	■	■
Burner housings	All industries	■	■	■	■	■			■	■	■
Pumps and compressors	All industries	■	■	■	■	■			■		■

The Bohle Group
Committed to quality

- Insulation Technology
- Interior Fitting
- Fire Protection
- Metal Construction



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