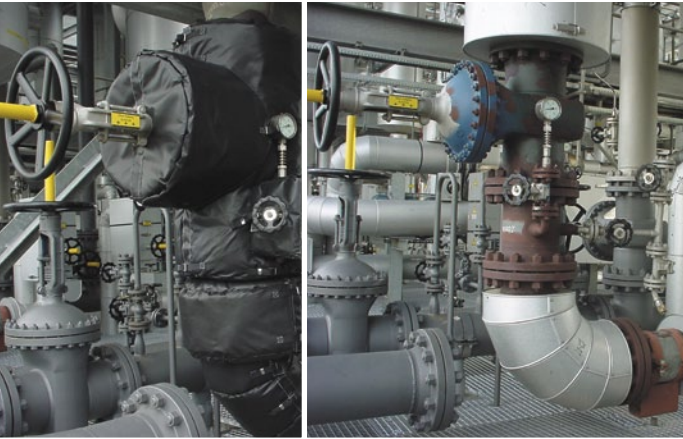


■ ISOFLEX® - Insulating jackets



... committed to quality

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 ISO FLEX® 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



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

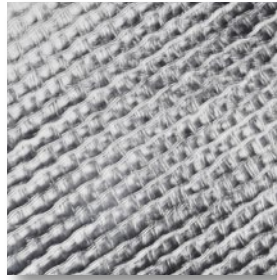
Temperature range: - 50 °C to 280 °C
Short-term temperature resistance up to 315 °C

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 %

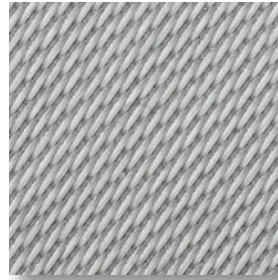
Thickness: 0.85 mm +/- 5 %

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 °C)

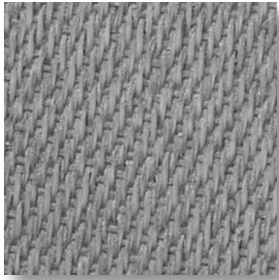
Fire resistance according to FMVSS302:

Passed

Resistance to fluids:

Good resistance to industrial substances and cleaning agents

jackets



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



Areas of application

Filling and loading processes

Industry

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

Excellent insulation properties

Safe handling

Quick access

Safety barrier to physical contact

Flexible shaping

Does not absorb liquids

Non-flammable

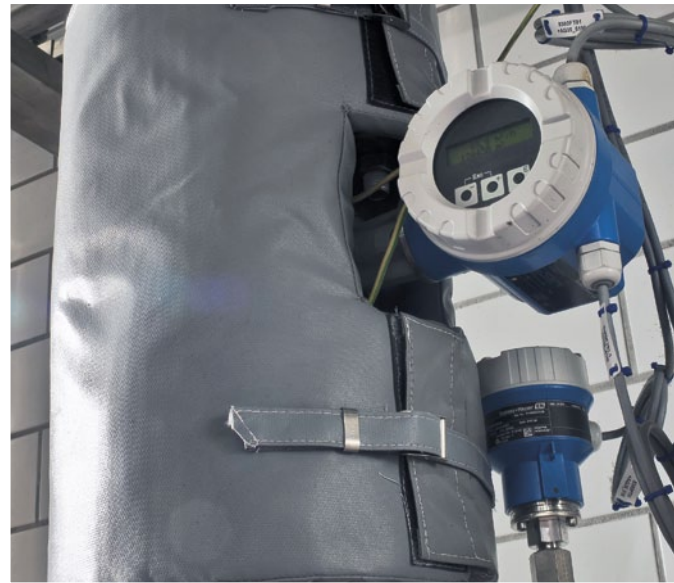
Easy-clean properties

Temperature-resistant up to 1100 °C

Good sound insulation properties

A 10x10 grid of dots representing a 100-dot paper. The grid is divided into four 5x5 sections by a vertical line in the middle and a horizontal line in the middle. The dots are arranged in a regular pattern, with each row containing 10 dots and each column containing 10 dots.

and safe!



The Bohle Group connected by quality



- Insulation technology
- Interior work
- Fire protection
- Services



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Gummersbach

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