

# Thermal blankets to **protect people and property.**



GASKETS

TECHNICAL TEXTILES

EXPANSION JOINTS

INSULATION

NEW MATERIALS

 **Frenzelit**

creating  
hightech  
solutions

# Thermal blankets

As a major supplier of technical textiles for use in gaskets and thermal insulation we help our customers to increase their competitive edge over their competitors.

Frenzelit has been developing and manufacturing textiles which are capable of withstanding high temperatures for more than 50 years. We listen to customer requirements, and give pro-active support throughout the development, sampling and manufacturing processes.

Your advantage: You, the customer, benefit not only from our technical knowledge but also from our decades of experience in application engineering.

There are four blanket product lines offered by Frenzelit, each with different temperature limits and numerous product types – perfectly adapted to their particular application.

## Innovations made by Frenzelit

Continuous improvement is essential in order to remain competitive in today's market. Frenzelit has extensive research and development facilities where new products are fully tested prior to introduction to the marketplace. Where customers provide time constraints we are able to offer timely customer support to ensure solutions are found and new technologies are implemented on time and within budget. These are the outstanding features of "innovations made by Frenzelit".

## Application areas

High-temperature safety blankets are suitable for many different application areas. When an engine compartment or a control cabinet is supposed to be covered up, when several blankets need to be spread out on a grid floor or when radiant heat shielding is required: isoTHERM® high-temperature safety blankets are always the preferred choice where protection against sparks, cinders or drops of welding material in the direct working environment are concerned.

Fire blankets in accordance with DIN 14155 make a valuable contribution towards compliance with workplace rules. Because wherever people's clothing can catch fire easily, e. g. when handling molten substances, in paintshops, at mineral oil companies or in chemical laboratories, suitable equipment has to be available to extinguish clothing that is on fire. Further advantages: a fire can be fought effectively at its source while it is still only starting. Fire blankets are easy to handle too and there are no maintenance regulations that have to be observed with them. And: no expensive damage is caused by them, as is the case when water or powder is used for fire extinguishing purposes, for example.

Soldering blankets provide small areas with protection against heat and are at the same time resistant to drops of solder. Frenzelit supplies two different soldering blanket lines, according to the application: isoTHERM® 1000 with the welding protection finish or isoTECH® preox needlemat.



# Product lines

## isoTHERM<sup>®</sup> 1000

with the welding protection finish

Application temperature limit  
**850 °C** (1000 °C for a short time)

The basic material is produced by a chemical refinement process. The components that melt at a low temperature are eliminated from E-glass fibres in this process, so that the temperature resistance level is increased. The products can be identified by their light blue colour.

isoTHERM<sup>®</sup> 1000 has extremely textile properties, does not irritate the skin at all and is classified as absolutely harmless to health.

The welding protection finish applied to both sides seals the surface of the fabric too and thus makes sure metal does not penetrate the material.

## isoTHERM<sup>®</sup> 800

Application temperature limit  
**700 °C** (800 °C for a short time)

The products are based on textured special glass and can be identified by their light green colour. Extremely textile properties even at high temperatures are their particular characteristic.

isoTHERM<sup>®</sup> 800 is absolutely harmless to health, withstands high temperatures and has excellent chemical resistance properties.

## isoGLAS<sup>®</sup>

Application temperature limit  
**450 °C** (550 °C for a short time)

E-glass is the basic material. Texturing guarantees a large storage volume and thus good insulation properties.

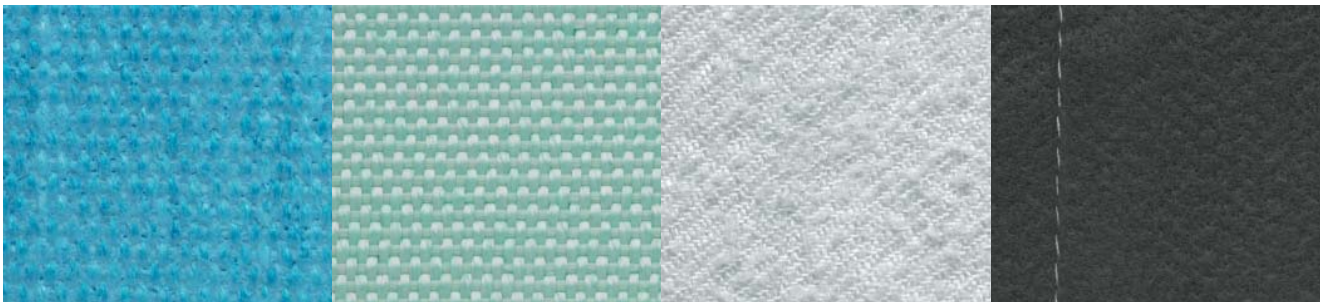
isoGLAS<sup>®</sup> products are extremely textile and harmless to health.

## isoTECH<sup>®</sup> preox needlemat

Application temperature limit  
**650 °C** (800 °C for a short time)

Preox fibres are the material on which this isoTECH<sup>®</sup> line is based. Preox is an oxidised, thermally stabilised polyacrylonitrile fibre that does not burn, melt, soften or drip.

The isoTECH<sup>®</sup> needlemat is needle-punched with isoGLAS<sup>®</sup> fabric to form a composite material. The excellent properties of preox are improved even more in this material combination.



Do you have any questions about your application?

The technical textiles information service will help you:

[textile@frenzelit.de](mailto:textile@frenzelit.de)

# Product types

## High-temperature safety blankets



<b>Product lines available:</b>	isoTHERM® 800 isoTHERM® 1000 with the welding protection finish
<b>Dimensions available:</b>	1000 x 1000 mm, 1000 x 1500 mm, 1000 x 2000 mm, 2000 x 2000 mm, 2000 x 1600 mm, 2000 x 3000 mm

## Fire blankets



<b>Features:</b>	Made from textured E-glass yarn in accordance with DIN 14155 with looped edges and contrasting attached hand pockets
<b>Dimension available:</b>	Dimensions of the open blanket 2000 x 1600 mm



<b>Fire blanket container:</b>	Made from sheet steel, with a stove-enamelled weatherproof finish in RAL 3000 fire brigade red
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<b>Dimension available:</b>	315 x 305 x 155 mm
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<b>PVC bag:</b>	For the dust-free storage of the fire blanket, e. g. in offices or cars
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<b>Dimension available:</b>	300 x 300 x 150 mm
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## Soldering blankets



<b>Features:</b>	For the protection of small areas against heat, resistant to drops of solder
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<b>Product lines available:</b>	Double-layer isoTHERM® 1000 fabric with welding protection finish (SSF), isoTECH® preox needlemat, needle-punched with isoGLAS® fabric, two layers, preox layer on the outside in each case
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<b>Dimension available:</b>	330 x 500 mm
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**Different dimensions are available on request.**

# Application areas

## Safety engineering

Protection against fire  
Protection of people  
Protection of property

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**[textile@frenzelit.de](mailto:textile@frenzelit.de)**

# Good for people and environment.

Frenzelit has obtained certification that the company complies with the requirements of both ISO/TS 16949 and ISO 14001. This means complete transparency in all areas and a high degree of security for our customers.

## Quality management

ISO/TS 16949

## Environmental management

ISO 14001

## Further products from Frenzelit for sealing applications, filtration, thermal and acoustic insulating

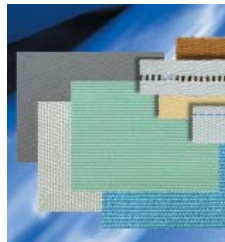
### Technical needlemats

for thermal and acoustic insulation and the filtration industry



### Technical tapes and woven fabrics

for sealing and insulation



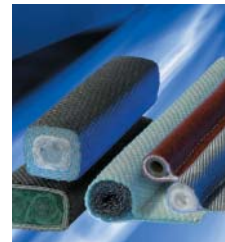
### novaSEAL®

Boiler and tank rings



### Tadpole tapes, wound packings and layered tapes

for sealing applications



### Technical cords and braids

for sealing and insulation



### Solutions

for acoustic and heat insulation



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